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OM protein - protein search, using sw model

Run on: April 7, 2006, 12:59:38 ; Search time 91.7626 Seconds
(without alignments)
1247.624 Million cell updates/sec

Title: US-09-819-371-5
Perfect score: 1496
Sequence: 1 GSHSLRYFSTAVSRGEGEP.....QRYTCHVQHEGLPQPLILRW 274

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1496	100.0	274	3	US-09-819-371-5
2	1496	100.0	362	4	US-10-257-021-82
3	1496	100.0	362	5	US-10-631-467-624
4	1496	100.0	442	4	US-10-408-765A-1887
5	1491	99.7	677	5	US-10-450-763-57085
6	1489	99.5	362	3	US-09-819-371-4
7	1311	87.6	271	3	US-09-925-301-1431
8	1221	81.6	362	5	US-10-631-467-728
9	1205	80.5	366	5	US-10-287-436A-101
10	1205	80.5	366	5	US-10-287-436A-162
11	1205	80.5	366	5	US-10-287-436A-1257
12	1205	80.5	366	5	US-10-287-436A-1267
13	1196	79.9	362	5	US-10-287-436A-120
14	1196	79.9	362	5	US-10-287-436A-1260
15	1193	78.7	365	5	US-10-741-600-941
16	1184	79.1	326	4	US-10-380-880-7
17	1184	79.1	338	4	US-10-741-601-380
18	1184	79.1	338	4	US-10-741-601-388
19	1184	79.1	338	5	US-10-741-600-1134
20	1184	79.1	338	5	US-10-741-600-1138
21	1184	79.1	338	5	US-10-482-023-110
22	1184	79.1	343	4	US-10-741-601-379
23	1184	79.1	343	5	US-10-741-600-1139
24	1183	79.1	365	5	US-10-287-436A-179
25	1183	79.1	365	5	US-10-287-436A-1268
26	1175	78.5	365	4	US-10-741-601-325
27	1175	78.5	365	4	US-10-741-601-326

28	1175	78.5	365	5	US-10-741-600-939	Sequence 939, App
29	1175	78.5	365	5	US-10-741-600-940	Sequence 940, App
30	1174.5	78.5	379	4	US-10-093-463-78	Sequence 78, Appl
31	1174.5	78.5	379	4	US-10-210-172-160	Sequence 160, App
32	1164	77.8	215	3	US-09-819-371-6	Sequence 6, Appli
33	1158	77.4	364	4	US-10-093-463-80	Sequence 80, Appl
34	1154	77.1	365	4	US-10-138-888-23	Sequence 23, Appl
35	1153	77.1	280	4	US-10-073-300-6	Sequence 6, Appli
36	1153	77.1	280	4	US-10-073-257-6	Sequence 6, Appli
37	1153	77.1	415	4	US-10-073-300-5	Sequence 5, Appli
38	1153	77.1	415	4	US-10-075-257-5	Sequence 5, Appli
39	1153	77.1	421	6	US-11-040-686-42	Sequence 42, Appl
40	1153	77.1	510	4	US-10-108-511-5	Sequence 5, Appli
41	1153	77.1	510	5	US-10-482-532-5	Sequence 5, Appli
42	1133.5	75.8	389	4	US-10-108-511-2	Sequence 2, Appli
43	1133.5	75.8	389	5	US-10-482-532-2	Sequence 2, Appli
44	1131	75.6	371	4	US-10-085-198-72	Sequence 72, Appl
45	1131	75.6	371	4	US-10-210-172-156	Sequence 156, App

ALIGNMENTS

RESULT 1

US-09-819-371-5
; Sequence 5, Application US/09819371
; Publication No. US20040053344A1
; GENERAL INFORMATION:
; APPLICANT: Egawa, Kohji
; TITLE OF INVENTION: Cancer Cell-Specific HLA-F Antigen and a Diagnostic Method of Ca
; FILE REFERENCE: 30815
; CURRENT APPLICATION NUMBER: US/09/819,371
; CURRENT FILING DATE: 2002-03-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 274
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-819-371-5

Query Match 100.0%; Score 1496; DB 3; Length 274;
Best Local Similarity 100.0%; Pred. No. 1e-135;
Matches 274; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GSHSLRYFSTAVSRGEGEPYIAVEYDDTQFLRFDSDAAIPRMEPREPWVEQSGPQY 60
DB	1	GSHSLRYFSTAVSRGEGEPYIAVEYDDTQFLRFDSDAAIPRMEPREPWVEQSGPQY 60
QY	61	EWTGYAKANAQTDRLVALNLLRRYNQSEAGSHTLQGNMGDMGPDGRLLRGYHQHAYDG 120
DB	61	EWTGYAKANAQTDRLVALNLLRRYNQSEAGSHTLQGNMGDMGPDGRLLRGYHQHAYDG 120
QY	121	KDYISLNBEDLSWTAADTVAQITQRYEABYAEFRYLRGECLELLRLRYLENGKETLQ 180
DB	121	KDYISLNBEDLSWTAADTVAQITQRYEABYAEFRYLRGECLELLRLRYLENGKETLQ 180
QY	181	RADPPKAHVAHPISDHEATLRCWALGYPAEITLTWQDGEQOTDTELVEPTRAGDGT 240
DB	181	RADPPKAHVAHPISDHEATLRCWALGYPAEITLTWQDGEQOTDTELVEPTRAGDGT 240
QY	241	FKWAAVVPVSGEQRVYCHVQHEGLPQPLILRW 274
DB	241	FKWAAVVPVSGEQRVYCHVQHEGLPQPLILRW 274

RESULT 2

US-10-257-021-82
; Sequence 82, Application US/10257021
; Publication No. US20030211498A1
; GENERAL INFORMATION:
; APPLICANT: Morin, Patrice J.

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; APPLICANT: Sherman-Baust, Cheryl A.
; APPLICANT: Pizer, Ellen S.
; APPLICANT: Hough, Colleen D.
; TITLE OF INVENTION: TUMOR MARKERS IN OVARIAN CANCER
; FILE REFERENCE: 14014.0369U2
; CURRENT APPLICATION NUMBER: US/10/257,021
; CURRENT FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: PCT/US01/10947
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/194,336
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-257-021-82

Query Match 100.0%; Score 1496; DB 4; Length 362;
Best Local Similarity 100.0%; Pred. No. 1.5e-135; Indels 0; Gaps 0;
Matches 274; Conservative 0; Mismatches 0;

Qy 1 GSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSDAAIPRMEPREPWVEQGPQYW 60
Db 22 GSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSDAAIPRMEPREPWVEQGPQYW 81
Qy 61 EWTGYAKANAQTDRLVALNLLRRYNOSEAGSHTLQGMNGCDMGPDGRLRLRGYHQAIDG 120
Db 82 EWTGYAKANAQTDRLVALNLLRRYNOSEAGSHTLQGMNGCDMGPDGRLRLRGYHQAIDG 141
Qy 121 KDYISLNEDLSRWTAAADTVAOITQRFYAEABEAFRYLGECELELLRRYLENGKETLQ 180
Db 142 KDYISLNEDLSRWTAAADTVAOITQRFYAEABEAFRYLGECELELLRRYLENGKETLQ 201
Qy 181 RADPPKAHVHHPISDHHEATLRCWALGFYPAEITLTWQDGEEOQTDTLVELTRPAGDGT 240
Db 202 RADPPKAHVHHPISDHHEATLRCWALGFYPAEITLTWQDGEEOQTDTLVELTRPAGDGT 261
Qy 241 FQKWAANVVPSEGEQRYTCHVQHEGLPOPLILRW 274
Db 262 FQKWAANVVPSEGEQRYTCHVQHEGLPOPLILRW 295

RESULT 4
US-10-408-765A-1887
; Sequence 1887, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Faby, Eoin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1887
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-1887

Query Match 100.0%; Score 1496; DB 4; Length 442;
Best Local Similarity 100.0%; Pred. No. 2e-135; Indels 0; Gaps 0;
Matches 274; Conservative 0; Mismatches 0;

Qy 1 GSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSDAAIPRMEPREPWVEQGPQYW 60
Db 22 GSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSDAAIPRMEPREPWVEQGPQYW 81
Qy 61 EWTGYAKANAQTDRLVALNLLRRYNOSEAGSHTLQGMNGCDMGPDGRLRLRGYHQAIDG 120
Db 82 EWTGYAKANAQTDRLVALNLLRRYNOSEAGSHTLQGMNGCDMGPDGRLRLRGYHQAIDG 141
Qy 121 KDYISLNEDLSRWTAAADTVAOITQRFYAEABEAFRYLGECELELLRRYLENGKETLQ 180
Db 142 KDYISLNEDLSRWTAAADTVAOITQRFYAEABEAFRYLGECELELLRRYLENGKETLQ 201
Qy 181 RADPPKAHVHHPISDHHEATLRCWALGFYPAEITLTWQDGEEOQTDTLVELTRPAGDGT 240
Db 202 RADPPKAHVHHPISDHHEATLRCWALGFYPAEITLTWQDGEEOQTDTLVELTRPAGDGT 261
Qy 241 FQKWAANVVPSEGEQRYTCHVQHEGLPOPLILRW 274
Db 262 FQKWAANVVPSEGEQRYTCHVQHEGLPOPLILRW 295

RESULT 5
US-10-450-763-57085
; Sequence 57085, Application US/10450763
; Publication No. US20050196754A1
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; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 57085
; LENGTH: 677
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (587)..(605)
; OTHER INFORMATION: Immunoglobulins and major histocompatibility complex proteins
; OTHER INFORMATION: domain identified by eMATRIX, accession number BL00290B, p-value=
; OTHER INFORMATION: 7.750e-19, raw score of 13.17
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (331)..(509)
; OTHER INFORMATION: Class I Histocompatibility antigen, domains domain identified
; OTHER INFORMATION: by Pfam, accession name MHC_I, E-value=5.8e-132, Pfam score of
; OTHER INFORMATION: 451.8
US-10-450-763-57085

Query Match          99.7%; Score 1491; DB 5; Length 677;
Best Local Similarity 99.6%; Pred. No. 1.1e-134;
Matches 273; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSDAAIPRMEPREPWWVEQSGPOYW 60
DB 331 GSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSDAAIPRMEPREPWWVEQSGPOYW 390
QY 61 EWTTCYAKANAQTDVALNLLRRYNQSEAGSHTLQGNMGCDMGDPDGLLRGYHQHAYDG 120
DB 391 EWTTCYAKANAQTDVALNLLRRYNQSEAGSHTLQGNMGCDMGDPDGLLRGYHQHAYDG 450
QY 121 KDYISLNEDLSRWSWTAADTVAQITQRFYEAEEYAEFRYLYEGECLELLRRYLENGKETLQ 180
DB 451 KDYISLNEDLSRWSWTAADTVAQITQRFYEAEEYAEFRYLYEGECLELLRRYLENGKETLQ 510
QY 181 RADPPKAHVAHPISDHEATLRCWALGFYPABITLTWQDGESEQTDTLTVETRPAGDGT 240
DB 511 RADPPKAHVAHPISDHEATLRCWALGFYPABITLTWQDGESEQTDTLTVETRPAGDGT 570
QY 241 FQKWAADVVPSEGEORYTCHVQHEGLPQPLILRW 274
DB 571 FQKWAADVVPSEGEORYTCHVQHEGLPQPLILRW 604

RESULT 6
US-09-819-371-4
; Sequence 4, Application US/09819371
; Publication No. US20040053344A1
; GENERAL INFORMATION:
; APPLICANT: Egawa, Kohji
; TITLE OF INVENTION: Cancer Cell-Specific HLA-F Antigen and a Diagnostic Method of Can
; FILE REFERENCE: 30815
; CURRENT APPLICATION NUMBER: US/09/819,371
; CURRENT FILING DATE: 2002-03-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 362
; TYPE: PRT

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; ORGANISM: Homo sapiens
US-09-819-371-4

Query Match          99.5%; Score 1489; DB 3; Length 362;
Best Local Similarity 99.6%; Pred. No. 7.2e-135;
Matches 273; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSDAAIPRMEPREPWWVEQSGPOYW 60
DB 22 GSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSDAAIPRMEPREPWWVEQSGPOYW 81
QY 61 EWTTCYAKANAQTDVALNLLRRYNQSEAGSHTLQGNMGCDMGDPDGLLRGYHQHAYDG 120
DB 82 EWTTCYAKANAQTDVALNLLRRYNQSEAGSHTLQGNMGCDMGDPDGLLRGYHQHAYDG 141
QY 121 KDYISLNEDLSRWSWTAADTVAQITQRFYEAEEYAEFRYLYEGECLELLRRYLENGKETLQ 180
DB 142 KDYISLNEDLSRWSWTAADTVAQITQRFYEAEEYAEFRYLYEGECLELLRRYLENGKETLQ 201
QY 181 RADPPKAHVAHPISDHEATLRCWALGFYPABITLTWQDGESEQTDTLTVETRPAGDGT 240
DB 202 RADPPKAHVAHPISDHEATLRCWALGFYPABITLTWQDGESEQTDTLTVETRPAGDGT 261
QY 241 FQKWAADVVPSEGEORYTCHVQHEGLPQPLILRW 274
DB 262 FQKWAADVVPSEGEORYTCHVQHEGLPQPLILRW 295

RESULT 7
US-09-925-301-1431
; Sequence 1431, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PAL06
; CURRENT APPLICATION NUMBER: US/09/925,301
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1431
; LENGTH: 271
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-301-1431

Query Match          87.6%; Score 1311; DB 3; Length 271;
Best Local Similarity 99.6%; Pred. No. 7.4e-118;
Matches 241; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSDAAIPRMEPREPWWVEQSGPOYW 60
DB 28 GSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSDAAIPRMEPREPWWVEQSGPOYW 87
QY 61 EWTTCYAKANAQTDVALNLLRRYNQSEAGSHTLQGNMGCDMGDPDGLLRGYHQHAYDG 120
DB 88 EWTTCYAKANAQTDVALNLLRRYNQSEAGSHTLQGNMGCDMGDPDGLLRGYHQHAYDG 147
QY 121 KDYISLNEDLSRWSWTAADTVAQITQRFYEAEEYAEFRYLYEGECLELLRRYLENGKETLQ 180
DB 148 KDYISLNEDLSRWSWTAADTVAQITQRFYEAEEYAEFRYLYEGECLELLRRYLENGKETLQ 207
QY 181 RADPPKAHVAHPISDHEATLRCWALGFYPABITLTWQDGESEQTDTLTVETRPAGDGT 240
DB 208 RADPPKAHVAHPISDHEATLRCWALGFYPABITLTWQDGESEQTDTLTVETRPAGDGT 267
QY 241 FQ 242
DB 268 FR 269

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RESULT 8
US-10-631-467-728
; Sequence 728, Application US/10631467
; Publication No. US20050208496A1
; GENERAL INFORMATION:
; APPLICANT: Genex Research Inc.
; TITLE OF INVENTION: Method for testing for bronchial asthma, or chronic obstructive p
; TITLE OF INVENTION: disease
; FILE REFERENCE: 3462.1005-000
; CURRENT APPLICATION NUMBER: US/10/631,467
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: JP 2003-077212
; PRIOR FILING DATE: 2003-03-20
; PRIOR APPLICATION NUMBER: JP 2002-229312
; PRIOR FILING DATE: 2002-08-06
; NUMBER OF SEQ ID NOS: 2086
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 728
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-631-467-728

Query Match      81.6%; Score 1221; DB 5; Length 362;
Best Local Similarity 81.4%; Pred. No. 5.3e-109;
Matches 223; Conservative 20; Mismatches 31; Indels 0; Gaps 0;

Qy 1 GSHSLRYFSTAVSRPGRGEPRIAYVEYDDTQFLRFDSDAAI PRMEPREPWVEQGPQYWE 60
Db 26 GSHSMRYFSTAVSRPGRGEPRIAYVEYDDTQFLRFDSDAAI PRMEPREPWVEQGPQYWE 84
Qy 61 EWTGYAKANAQTDRLVALNRLRRYNOSEAGSHTLQGMNCGDMPDGRLRLRGYHQHAYDG 120
Db 85 DRNTQIYKAQTDRLVALNRLRRYNOSEAGSHTLQGMNCGDMPDGRLRLRGYHQHAYDG 144
Qy 121 KDYLINEDLSWTAADTVAQITQRFYAEAEYAEFRYLEGECELELLRRLYLENGKETLQ 180
Db 145 KDYLINEDLSWTAADTVAQITQRFYAEAEYAEFRYLEGECELELLRRLYLENGKETLQ 204
Qy 181 RADPPKAHVHPIPSDHEATLRCWALGFYPABITLITWQDGEEOQTDTLQDTLQDTLQDTL 240
Db 205 RADPPKTHVTHPIPSDHEATLRCWALGFYPABITLITWQDGEEOQTDTLQDTLQDTLQDTL 264
Qy 241 FQKAAVVVPVSGEQRYYTCHVQHEGLPOPLILRW 274
Db 265 FQKAAVVVPVSGEQRYYTCHVQHEGLPKPLTLRW 298

RESULT 9
US-10-287-436A-101
; Sequence 101, Application US/10287436A
; Publication No. US2005020421A1
; GENERAL INFORMATION:
; APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER
; TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: RHEUMATOID ARTHRITIS
; FILE REFERENCE: 10872.514696
; CURRENT APPLICATION NUMBER: US/10/287,436A
; CURRENT FILING DATE: 2002-10-31
; PRIOR APPLICATION NUMBER: US 60/336,220
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 1446
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 101
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-287-436A-101

Query Match      80.5%; Score 1205; DB 5; Length 366;
Best Local Similarity 81.3%; Pred. No. 1.9e-107;
Matches 222; Conservative 16; Mismatches 35; Indels 0; Gaps 0;

Qy 2 SHSLRYFSTAVSRPGRGEPRIAYVEYDDTQFLRFDSDAAI PRMEPREPWVEQGPQYWE 61
Db 26 SHSMRYFSTAVSRPGRGEPRIAYVEYDDTQFLRFDSDAAI PRMEPREPWVEQGPQYWE 85
Qy 62 WTTGYAKANAQTDRLVALNRLRRYNOSEAGSHTLQGMNCGDMPDGRLRLRGYHQHAYDG 121
Db 86 RETQYKQKQAQADRVNRLKRLRGYNOSEAGSHTLQGMNCGDLPDGLRLLRGYDQSAIDGK 145
Qy 122 DYISINEDLSWTAADTVAQITQRFYAEAEYAEFRYLEGECELELLRRLYLENGKETLQ 181
Db 146 DYIALNEDLSWTAADTVAQITQRFYAEAEYAEFRYLEGECELELLRRLYLENGKETLQ 205
Qy 182 ADPPKAHVHPIPSDHEATLRCWALGFYPABITLITWQDGEEOQTDTLQDTLQDTLQDTL 241
Db 206 AEHPKTHVTHPIPSDHEATLRCWALGFYPABITLITWQDGEEOQTDTLQDTLQDTLQDTL 265

RESULT 11
US-10-287-436A-1257
; Sequence 1257, Application US/10287436A
; Publication No. US2005020421A1
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Matches 222; Conservative 16; Mismatches 35; Indels 0; Gaps 0;

Qy 2 SHSLRYFSTAVSRPGRGEPRIAYVEYDDTQFLRFDSDAAI PRMEPREPWVEQGPQYWE 61
Db 26 SHSMRYFSTAVSRPGRGEPRIAYVEYDDTQFLRFDSDAAI PRMEPREPWVEQGPQYWE 85
Qy 62 WTTGYAKANAQTDRLVALNRLRRYNOSEAGSHTLQGMNCGDMPDGRLRLRGYHQHAYDG 121
Db 86 RETQYKQKQAQADRVNRLKRLRGYNOSEAGSHTLQGMNCGDLPDGLRLLRGYDQSAIDGK 145
Qy 122 DYISINEDLSWTAADTVAQITQRFYAEAEYAEFRYLEGECELELLRRLYLENGKETLQ 181
Db 146 DYIALNEDLSWTAADTVAQITQRFYAEAEYAEFRYLEGECELELLRRLYLENGKETLQ 205
Qy 182 ADPPKAHVHPIPSDHEATLRCWALGFYPABITLITWQDGEEOQTDTLQDTLQDTLQDTL 241
Db 206 AEHPKTHVTHPIPSDHEATLRCWALGFYPABITLITWQDGEEOQTDTLQDTLQDTLQDTL 265
Qy 242 QKAAVVVPVSGEQRYYTCHVQHEGLPOPLILRW 274
Db 266 QKAAVVVPVSGEQRYYTCHVQHEGLPEPLTLRW 298
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RESULT 10
US-10-287-436A-162
; Sequence 162, Application US/10287436A
; Publication No. US2005020421A1
; GENERAL INFORMATION:
; APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER
; TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: RHEUMATOID ARTHRITIS
; FILE REFERENCE: 10872.514696
; CURRENT APPLICATION NUMBER: US/10/287,436A
; CURRENT FILING DATE: 2002-10-31
; PRIOR APPLICATION NUMBER: US 60/336,220
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 1446
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 162
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-287-436A-162
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Query Match      80.5%; Score 1205; DB 5; Length 366;
Best Local Similarity 81.3%; Pred. No. 1.9e-107;
Matches 222; Conservative 16; Mismatches 35; Indels 0; Gaps 0;

Qy 2 SHSLRYFSTAVSRPGRGEPRIAYVEYDDTQFLRFDSDAAI PRMEPREPWVEQGPQYWE 61
Db 26 SHSMRYFSTAVSRPGRGEPRIAYVEYDDTQFLRFDSDAAI PRMEPREPWVEQGPQYWE 85
Qy 62 WTTGYAKANAQTDRLVALNRLRRYNOSEAGSHTLQGMNCGDMPDGRLRLRGYHQHAYDG 121
Db 86 RETQYKQKQAQADRVNRLKRLRGYNOSEAGSHTLQGMNCGDLPDGLRLLRGYDQSAIDGK 145
Qy 122 DYISINEDLSWTAADTVAQITQRFYAEAEYAEFRYLEGECELELLRRLYLENGKETLQ 181
Db 146 DYIALNEDLSWTAADTVAQITQRFYAEAEYAEFRYLEGECELELLRRLYLENGKETLQ 205
Qy 182 ADPPKAHVHPIPSDHEATLRCWALGFYPABITLITWQDGEEOQTDTLQDTLQDTLQDTL 241
Db 206 AEHPKTHVTHPIPSDHEATLRCWALGFYPABITLITWQDGEEOQTDTLQDTLQDTLQDTL 265
Qy 242 QKAAVVVPVSGEQRYYTCHVQHEGLPOPLILRW 274
Db 266 QKAAVVVPVSGEQRYYTCHVQHEGLPEPLTLRW 298
```

```
RESULT 11
US-10-287-436A-1257
; Sequence 1257, Application US/10287436A
; Publication No. US2005020421A1
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; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 1446
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1260
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-287-436A-1260
```

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Query Match          79.9%; Score 1196; DB 5; Length 362;
Best Local Similarity 80.3%; Pred. No. 1.4e-106;
Matches 220; Conservative 17; Mismatches 37; Indels 0; Gaps 0;
```

```
Qy 1 GSHSLRYFSTAVSRGCGEPRIAYEYVDDTQFLRFDSDAAIPRMEPREPWVBOGPOYW 60
Db 25 GSHSMRYFHTAMSRGCGEPRIITVGYVDDTLFVRFDSDATSPRKEPRAPWIEQEGPEYW 84

Qy 61 EWTTCYAKANAQTRVALNRLRRYNSQAGSHTLQMGNGCDMGDPDGRLLRGYHQHAYDG 120
Db 85 DRETQISKNTQTYRESLNLRGYNSQAGSHTWQRMYGCDLGPDGRLLRGYNQLAYDG 144

Qy 121 KDYISLNEEDLSWTAADTVAQITQRFYAEAEYAEFRYLSGECLELLRRYLENGKETLQ 180
Db 145 KDYIALNEEDLSWTAADTAAQITQKWEAARVAEQDRAYLEGLCVESLRRYLENGKETLQ 204

Qy 181 RADPPKAHVAAHPISDHEATLRCWALGFYPAEITLTWQDGESEQTQDTLVELVETRPAGDGT 240
Db 205 RADPPKTHVTHHPISDHEATLRCWALGFYPAEITLTWQDGEDQTDQDTLVELVETRPAGDRT 264

Qy 241 FQKWAADVVPSEGEQRYTCHVQHEGLPOPLILRW 274
Db 265 FQKWAADVVPSEGEQRYTCHVQHEGLPKPLILRW 298
```

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RESULT 15
US-10-741-600-941
; Sequence 941, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 941
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-741-600-941
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Query Match          79.7%; Score 1193; DB 5; Length 365;
Best Local Similarity 79.6%; Pred. No. 2.7e-106;
Matches 218; Conservative 19; Mismatches 37; Indels 0; Gaps 0;
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Qy 1 GSHSLRYFSTAVSRGCGEPRIAYEYVDDTQFLRFDSDAAIPRMEPREPWVBOGPOYW 60
Db 25 GSHSMRYFHTAMSRGCGEPRIAYEYVDDTQFLRFDSDAASQRMPEPRAPWIEQEGPEYW 84

Qy 61 EWTTCYAKANAQTRVALNRLRRYNSQAGSHTLQMGNGCDMGDPDGRLLRGYHQHAYDG 120
Db 85 DQETRNVAQSQTRVDLGLTLRGYNSQAGSHTIQIMYGCDVGSDDGRFLRGYRQDAYDG 144

Qy 121 KDYISLNEEDLSWTAADTVAQITQRFYAEAEYAEFRYLSGECLELLRRYLENGKETLQ 180
Db 145 KDYIALNEEDLSWTAADMAAQITRKKEAAAEAEQRLAYLDGTCVWELRRYLENGKETLQ 204

Qy 181 RADPPKAHVAAHPISDHEATLRCWALGFYPAEITLTWQDGESEQTQDTLVELVETRPAGDGT 240
Db 205 RTDPKTHVTHHPISDHEATLRCWALGFYPAEITLTWQDGEDQTDQDTLVELVETRPAGDGT 264
```

```
Qy 241 FQKWAADVVPSEGEQRYTCHVQHEGLPOPLILRW 274
Db 265 FQKWAADVVPSEGEQRYTCHVQHEGLPKPLILRW 298

Search completed: April 7, 2006, 13:05:57
Job time : 92.7626 secs
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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: April 7, 2006, 12:59:38 ; Search time 72.0035 Seconds
(without alignments)
1247.624 Million cell updates/sec

Title: US-09-819-371-6
Perfect score: 1173
Sequence: 1 IAVEYVDDTQFLRFDSDAAI.....QRDGEQQTDELVETRPAG 215

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA_Main:*

- 1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep.*
- 3: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pep.*
- 4: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep.*
- 5: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep.*
- 6: /cgn2_6/prodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	1173	100.0	215	3	US-09-819-371-6
2	1164	99.2	271	3	US-09-925-301-1431
3	1164	99.2	274	4	US-09-819-371-5
4	1164	99.2	362	4	US-10-257-021-82
5	1164	99.2	362	5	US-10-631-467-624
6	1164	99.2	442	4	US-10-408-765A-1887
7	1164	99.2	677	5	US-10-450-763-57085
8	1157	98.6	362	3	US-09-819-371-4
9	921	78.5	362	5	US-10-631-467-728
10	897	76.5	366	5	US-10-287-436A-101
11	897	76.5	366	5	US-10-287-436A-162
12	897	76.5	366	5	US-10-287-436A-1257
13	897	76.5	366	5	US-10-287-436A-1267
14	895	76.3	362	5	US-10-287-436A-120
15	895	76.3	362	5	US-10-287-436A-1260
16	885	75.4	365	5	US-10-741-600-941
17	881	75.1	365	5	US-10-287-436A-179
18	881	75.1	365	5	US-10-287-436A-1268
19	869	74.1	326	4	US-10-380-880-7
20	869	74.1	338	4	US-10-741-601-380
21	869	74.1	338	4	US-10-741-601-388
22	869	74.1	338	5	US-10-741-600-1134
23	869	74.1	338	5	US-10-741-600-1138
24	869	74.1	338	5	US-10-482-029-110
25	869	74.1	343	4	US-10-741-601-379
26	869	74.1	343	5	US-10-741-600-1139
27	867	73.9	365	4	US-10-741-601-325

28	867	73.9	365	4	US-10-741-601-326	Sequence 326, App
29	867	73.9	365	5	US-10-741-600-939	Sequence 939, App
30	867	73.9	365	5	US-10-741-600-940	Sequence 940, App
31	859.5	73.3	379	4	US-10-093-463-78	Sequence 78, Appl
32	859.5	73.3	379	4	US-10-210-173-160	Sequence 160, App
33	852	72.6	364	4	US-10-093-463-80	Sequence 80, Appl
34	849	72.4	365	4	US-10-138-888-23	Sequence 23, Appl
35	848	72.3	280	4	US-10-073-300-6	Sequence 6, Appl
36	848	72.3	280	4	US-10-073-300-5	Sequence 5, Appl
37	848	72.3	415	4	US-10-073-300-5	Sequence 5, Appl
38	848	72.3	415	4	US-10-075-257-5	Sequence 5, Appl
39	848	72.3	421	6	US-11-040-686-42	Sequence 42, Appl
40	848	72.3	510	4	US-10-108-511-5	Sequence 5, Appl
41	848	72.3	510	5	US-10-482-532-5	Sequence 5, Appl
42	846	72.1	365	5	US-10-128-558-136	Sequence 136, App
43	832	70.9	371	4	US-10-085-198-72	Sequence 72, Appl
44	832	70.9	371	4	US-10-210-172-156	Sequence 156, App
45	829	70.7	372	5	US-10-450-255-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-09-819-371-6
; Sequence 6, Application US/09819371
; Publication No. US2004005344A1
; GENERAL INFORMATION:
; APPLICANT: Egawa, Kohji
; TITLE OF INVENTION: Cancer Cell-Specific HLA-F Antigen and a Diagnostic Method of Ca
; FILE REFERENCE: 30815
; CURRENT APPLICATION NUMBER: US/09/819,371
; CURRENT FILING DATE: 2002-03-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 6
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-819-371-6

Query Match 100.0%; Score 1173; DB 3; Length 215;
Best Local Similarity 100.0%; Pred. No. 1.3e-108;
Matches 215; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	I AVEYVDDTQFLRFDSDAAI PRMEPRPWEQSGPQYWEWTTGYAKANAQTRVALRNLL	60
Db	1	I AVEYVDDTQFLRFDSDAAI PRMEPRPWEQSGPQYWEWTTGYAKANAQTRVALRNLL	60
Qy	61	RRYNSGASHLTQGMNGCDMGDGRLLRGYHQAHDGKDYISLNEDLSRSTAADTVAQI	120
Db	61	RRYNSGASHLTQGMNGCDMGDGRLLRGYHQAHDGKDYISLNEDLSRSTAADTVAQI	120
Qy	121	TORFYAEAYAEFPRTYLEGECELLRRYLENGKETLQRAADPPKARVAHHPISDHEATLR	180
Db	121	TORFYAEAYAEFPRTYLEGECELLRRYLENGKETLQRAADPPKARVAHHPISDHEATLR	180
Qy	181	CWALGFYPAETLTWQDGEQQTDELVETRPAG	215
Db	181	CWALGFYPAETLTWQDGEQQTDELVETRPAG	215

RESULT 2
US-09-925-301-1431
; Sequence 1431, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10

```
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1431
; LENGTH: 271
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-301-1431

Query Match          99.2%; Score 1164; DB 3; Length 271;
Best Local Similarity 99.5%; Pred. No. 1.4e-107;
Matches 214; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAVEYVDDTQFLRFDSDAAIPRMEPRPFWVEGPGQYWEWTTGYAKANAQTDVALRNLL 60
DB 50 IAVEYVDDTQFLRFDSDAAIPRMEPRPFWVEGPGQYWEWTTGYAKANAQTDVALRNLL 109
QY 61 RRYNQSAGSHTLQMGNGCDMPDGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQI 120
DB 110 RRYNQSAGSHTLQMGNGCDMPDGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQI 169
QY 121 TORFYEAEEYAEFEFTYLEGECLELLRRYLENGKETLQRADPPPKAHVAHHPISDHEATLR 180
DB 170 TORFYEAEEYAEFEFTYLEGECLELLRRYLENGKETLQRADPPPKAHVAHHPISDHEATLR 229
QY 181 CWALGFYPAEITLTWQRDGEETQDTVELVETRPAG 215
DB 230 CWALGFYPAEITLTWQRDGEETQDTVELVETRPAG 264

RESULT 3
US-09-819-371-5
; Sequence 5, Application US/09819371
; Publication No. US2004005344A1
; GENERAL INFORMATION:
; APPLICANT: Egawa, Kohji
; TITLE OF INVENTION: Cancer Cell-Specific HLA-F Antigen and a Diagnostic Method of Can
; FILE REFERENCE: 30815
; CURRENT APPLICATION NUMBER: US/09/819,371
; PRIOR FILING DATE: 2002-03-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 274
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-819-371-5

Query Match          99.2%; Score 1164; DB 3; Length 274;
Best Local Similarity 99.5%; Pred. No. 1.4e-107;
Matches 214; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAVEYVDDTQFLRFDSDAAIPRMEPRPFWVEGPGQYWEWTTGYAKANAQTDVALRNLL 60
DB 23 IAVEYVDDTQFLRFDSDAAIPRMEPRPFWVEGPGQYWEWTTGYAKANAQTDVALRNLL 82
QY 61 RRYNQSAGSHTLQMGNGCDMPDGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQI 120
DB 83 RRYNQSAGSHTLQMGNGCDMPDGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQI 142
QY 121 TORFYEAEEYAEFEFTYLEGECLELLRRYLENGKETLQRADPPPKAHVAHHPISDHEATLR 180
DB 143 TORFYEAEEYAEFEFTYLEGECLELLRRYLENGKETLQRADPPPKAHVAHHPISDHEATLR 202
QY 181 CWALGFYPAEITLTWQRDGEETQDTVELVETRPAG 215
DB 203 CWALGFYPAEITLTWQRDGEETQDTVELVETRPAG 237
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```
RESULT 4
US-10-257-021-82
; Sequence 82, Application US/10257021
; Publication No. US20030211498A1
; GENERAL INFORMATION:
; APPLICANT: Morin, Patrice J.
; APPLICANT: Sherman-Baust, Cheryl A.
; APPLICANT: Pizer, Ellen S.
; APPLICANT: Hough, Colleen D.
; TITLE OF INVENTION: TUMOR MARKERS IN OVARIAN CANCER
; FILE REFERENCE: 14014.0369U2
; CURRENT APPLICATION NUMBER: US/10/257,021
; CURRENT FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: PCT/US01/10947
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/194,336
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-257-021-82

Query Match          99.2%; Score 1164; DB 4; Length 362;
Best Local Similarity 99.5%; Pred. No. 2e-107;
Matches 214; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAVEYVDDTQFLRFDSDAAIPRMEPRPFWVEGPGQYWEWTTGYAKANAQTDVALRNLL 60
DB 44 IAVEYVDDTQFLRFDSDAAIPRMEPRPFWVEGPGQYWEWTTGYAKANAQTDVALRNLL 103
QY 61 RRYNQSAGSHTLQMGNGCDMPDGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQI 120
DB 104 RRYNQSAGSHTLQMGNGCDMPDGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQI 163
QY 121 TORFYEAEEYAEFEFTYLEGECLELLRRYLENGKETLQRADPPPKAHVAHHPISDHEATLR 180
DB 164 TORFYEAEEYAEFEFTYLEGECLELLRRYLENGKETLQRADPPPKAHVAHHPISDHEATLR 223
QY 181 CWALGFYPAEITLTWQRDGEETQDTVELVETRPAG 215
DB 224 CWALGFYPAEITLTWQRDGEETQDTVELVETRPAG 258
```

```
RESULT 5
US-10-631-467-624
; Sequence 624, Application US/10631467
; Publication No. US20050208496A1
; GENERAL INFORMATION:
; APPLICANT: Genox Research Inc.
; TITLE OF INVENTION: Method for testing for bronchial asthma, or chronic obstructive i
; FILE REFERENCE: 3462.1005-000
; CURRENT APPLICATION NUMBER: US/10/631,467
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: JP 2003-077212
; PRIOR FILING DATE: 2003-03-20
; PRIOR APPLICATION NUMBER: JP 2002-229312
; PRIOR FILING DATE: 2002-08-06
; NUMBER OF SEQ ID NOS: 2086
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 624
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-631-467-624

Query Match          99.2%; Score 1164; DB 5; Length 362;
Best Local Similarity 99.5%; Pred. No. 2e-107;
Matches 214; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY 1 IAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQPGQYWEWTTGYAKANAQTDRLVALRNL 60
 DB 44 IAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQPGQYWEWTTGYAKANAQTDRLVALRNL 103
 QY 61 RRYNQSEAGSHTLQGNMGCDMPDGRLLRGYHQHAWDGKDYISLNEDLSWTAADTVQAI 120
 DB 104 RRYNQSEAGSHTLQGNMGCDMPDGRLLRGYHQHAWDGKDYISLNEDLSWTAADTVQAI 163
 QY 121 TORFYAEAYEAEFRTYLEGECLLELLRRYLENGKETLQADPPPKAHVAHHPISDHEATLR 180
 DB 164 TORFYAEAYEAEFRTYLEGECLLELLRRYLENGKETLQADPPPKAHVAHHPISDHEATLR 223
 QY 181 CWALGFYPAEITLTWQDGEQTDTELVEVPAG 215
 DB 224 CWALGFYPAEITLTWQDGEQTDTELVEVPAG 258

RESULT 6

US-10-408-765A-1887

; Sequence 1887, Application US/10408765A

; Publication No. US20040101874A1

; GENERAL INFORMATION:

; APPLICANT: Ghosh, Soumitra S.

; APPLICANT: Fahy, Roin D.

; APPLICANT: Zhang, Bing

; APPLICANT: Gibson, Bradford W.

; APPLICANT: Taylor, Steven W.

; APPLICANT: Glenn, Gary M.

; APPLICANT: Wainock, Dale B.

; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION

; FILE REFERENCE: 660088.465

; CURRENT APPLICATION NUMBER: US/10/408,765A

; CURRENT FILING DATE: 2003-04-04

; NUMBER OF SEQ ID NOS: 3077

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1887

; LENGTH: 442

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-408-765A-1887

Query Match 99.2%; Score 1164; DB 4; Length 442;
 Best Local Similarity 99.5%; Pred. No. 2.6e-107;
 Matches 214; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQPGQYWEWTTGYAKANAQTDRLVALRNL 60
 DB 44 IAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQPGQYWEWTTGYAKANAQTDRLVALRNL 103
 QY 61 RRYNQSEAGSHTLQGNMGCDMPDGRLLRGYHQHAWDGKDYISLNEDLSWTAADTVQAI 120
 DB 104 RRYNQSEAGSHTLQGNMGCDMPDGRLLRGYHQHAWDGKDYISLNEDLSWTAADTVQAI 163
 QY 121 TORFYAEAYEAEFRTYLEGECLLELLRRYLENGKETLQADPPPKAHVAHHPISDHEATLR 180
 DB 164 TORFYAEAYEAEFRTYLEGECLLELLRRYLENGKETLQADPPPKAHVAHHPISDHEATLR 223
 QY 181 CWALGFYPAEITLTWQDGEQTDTELVEVPAG 215
 DB 224 CWALGFYPAEITLTWQDGEQTDTELVEVPAG 258

RESULT 7

US-10-450-763-57085

; Sequence 57085, Application US/10450763

; Publication No. US20050196754A1

; GENERAL INFORMATION:

; APPLICANT: Hyseq, Inc

; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES

; FILE REFERENCE: 790CIP3/US

; CURRENT APPLICATION NUMBER: US/10/450,763

; CURRENT FILING DATE: 2003-06-11

Query Match 98.6%; Score 1157; DB 3; Length 362;
 Best Local Similarity 99.1%; Pred. No. 9.9e-107;
 Matches 213; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQPGQYWEWTTGYAKANAQTDRLVALRNL 60
 DB 44 IAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQPGQYWEWTTGYAKANAQTDRLVALRNL 103

; PRIOR APPLICATION NUMBER: PCT/US01/08631
 ; PRIOR FILING DATE: 2001-03-30
 ; PRIOR APPLICATION NUMBER: 09/540,217
 ; PRIOR FILING DATE: 2000-03-31
 ; PRIOR APPLICATION NUMBER: 09/649,167
 ; PRIOR FILING DATE: 2000-08-23
 ; NUMBER OF SEQ ID NOS: 60736
 ; SOFTWARE: Custom
 ; SEQ ID NO 57085
 ; LENGTH: 677
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; NAME/KEY: DOMAIN
 ; LOCATION: (587)...(605)
 ; OTHER INFORMATION: Immunoglobulins and major histocompatibility complex proteins
 ; OTHER INFORMATION: domain identified by eMatrix, accession number BL002908, p-value
 ; OTHER INFORMATION: 7.750e-19, raw score of 13.17
 ; FEATURE:
 ; NAME/KEY: DOMAIN
 ; LOCATION: (331)...(509)
 ; OTHER INFORMATION: Class I Histocompatibility antigen, domains domain identified
 ; OTHER INFORMATION: by Pfam, accession name MHC_I, E-value=5.8e-132, Pfam score of
 ; OTHER INFORMATION: 451.8
 ; OTHER INFORMATION: 451.8

US-10-450-763-57085

Query Match 99.2%; Score 1164; DB 5; Length 677;
 Best Local Similarity 99.5%; Pred. No. 4.5e-107;
 Matches 214; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQPGQYWEWTTGYAKANAQTDRLVALRNL 60
 DB 353 IAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQPGQYWEWTTGYAKANAQTDRLVALRNL 412
 QY 61 RRYNQSEAGSHTLQGNMGCDMPDGRLLRGYHQHAWDGKDYISLNEDLSWTAADTVQAI 120
 DB 413 RRYNQSEAGSHTLQGNMGCDMPDGRLLRGYHQHAWDGKDYISLNEDLSWTAADTVQAI 472
 QY 121 TORFYAEAYEAEFRTYLEGECLLELLRRYLENGKETLQADPPPKAHVAHHPISDHEATLR 180
 DB 473 TORFYAEAYEAEFRTYLEGECLLELLRRYLENGKETLQADPPPKAHVAHHPISDHEATLR 532
 QY 181 CWALGFYPAEITLTWQDGEQTDTELVEVPAG 215
 DB 533 CWALGFYPAEITLTWQDGEQTDTELVEVPAG 567

RESULT 8

US-09-819-371-4

; Sequence 4, Application US/09819371

; Publication No. US20040053344A1

; GENERAL INFORMATION:

; APPLICANT: Egawa, Kohji

; TITLE OF INVENTION: Cancer Cell-Specific HLA-F Antigen and a Diagnostic Method of Ca

; TITLE OF INVENTION: Using Thereof

; FILE REFERENCE: 30815

; CURRENT APPLICATION NUMBER: US/09/819,371

; CURRENT FILING DATE: 2002-03-15

; NUMBER OF SEQ ID NOS: 6

; SOFTWARE: Patent version 3.0

; SEQ ID NO 4

; LENGTH: 362

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-819-371-4

Query Match 98.6%; Score 1157; DB 3; Length 362;
 Best Local Similarity 99.1%; Pred. No. 9.9e-107;
 Matches 213; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQPGQYWEWTTGYAKANAQTDRLVALRNL 60
 DB 44 IAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQPGQYWEWTTGYAKANAQTDRLVALRNL 103

GENERAL INFORMATION:
 ; APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER
 ; TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF
 ; TITLE OF INVENTION: RHEUMATOID ARTHRITIS
 ; FILE REFERENCE: 10872.514696
 ; CURRENT APPLICATION NUMBER: US/10/287,436A
 ; CURRENT FILING DATE: 2002-10-31
 ; PRIOR APPLICATION NUMBER: US 60/336,220
 ; PRIOR FILING DATE: 2001-10-31
 ; NUMBER OF SEQ ID NOS: 1446
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 1257
 ; LENGTH: 366
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-287-436A-1257

Query Match 76.5%; Score 897; DB 5; Length 366;
 Best Local Similarity 78.1%; Pred. No. 9.2e-81;
 Matches 168; Conservative 14; Mismatches 33; Indels 0; Gaps 0;

Qy 1 IAVEYVDDTQFLRFDSDAAIPRMEPPWVEQSGPOYWEWTTGYAKANAOTDRVALRNL 60
 Db 47 ISGVYVDDTQFVRFSDAASPRGEPAPWVEQSGPYWDRQTKYKQRAQADRVNLRKL 106
 Qy 61 RRYNQSEAGSHTLQGMNGCDMPDGLRLRGYHQHAWDGKDYISLNEDLSRWSAADAQ 120
 Db 107 GYTNQSEAGSHTLQGMNGCDLPDGLRLRGYHQHAWDGKDYISLNEDLSRWSAADAQ 166
 Qy 121 TORPYAEYAEFRYLYEGECLELLRRYLENGKETLQADPPKHAHVAHPISDHEATLR 180
 Db 167 TORKEAREAEQWRAYLEGTCVWELRYLENGKETLQADPPKHAHVAHPISDHEATLR 226

Qy 181 CWALGFYPAEITLWQDGEQDTDELVELTRPAG 215
 Db 227 CWALGFYPAEITLWQDGEQDTDELVELTRPAG 261

RESULT 13
 US-10-287-436A-1267
 ; Sequence 1267, Application US/10287436A
 ; Publication No. US20050202421A1
 ; GENERAL INFORMATION:
 ; APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER
 ; TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF
 ; TITLE OF INVENTION: RHEUMATOID ARTHRITIS
 ; FILE REFERENCE: 10872.514696
 ; CURRENT APPLICATION NUMBER: US/10/287,436A
 ; CURRENT FILING DATE: 2002-10-31
 ; PRIOR APPLICATION NUMBER: US 60/336,220
 ; PRIOR FILING DATE: 2001-10-31
 ; NUMBER OF SEQ ID NOS: 1446
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 1267
 ; LENGTH: 366
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-287-436A-1267

Query Match 76.5%; Score 897; DB 5; Length 366;
 Best Local Similarity 78.1%; Pred. No. 9.2e-81;
 Matches 168; Conservative 14; Mismatches 33; Indels 0; Gaps 0;

Qy 1 IAVEYVDDTQFLRFDSDAAIPRMEPPWVEQSGPOYWEWTTGYAKANAOTDRVALRNL 60
 Db 47 ISGVYVDDTQFVRFSDAASPRGEPAPWVEQSGPYWDRQTKYKQRAQADRVNLRKL 106
 Qy 61 RRYNQSEAGSHTLQGMNGCDMPDGLRLRGYHQHAWDGKDYISLNEDLSRWSAADAQ 120
 Db 107 GYTNQSEAGSHTLQGMNGCDLPDGLRLRGYHQHAWDGKDYISLNEDLSRWSAADAQ 166
 Qy 121 TORPYAEYAEFRYLYEGECLELLRRYLENGKETLQADPPKHAHVAHPISDHEATLR 180
 Db 167 TORKEAREAEQWRAYLEGTCVWELRYLENGKETLQADPPKHAHVAHPISDHEATLR 226

Qy 181 CWALGFYPAEITLWQDGEQDTDELVELTRPAG 215
 Db 227 CWALGFYPAEITLWQDGEQDTDELVELTRPAG 261

Query Match 76.3%; Score 895; DB 5; Length 362;
 Best Local Similarity 77.7%; Pred. No. 1.4e-80;
 Matches 167; Conservative 14; Mismatches 34; Indels 0; Gaps 0;

Qy 1 IAVEYVDDTQFLRFDSDAAIPRMEPPWVEQSGPOYWEWTTGYAKANAOTDRVALRNL 60
 Db 47 ITGVYVDDTLFVRFSDATSPRKEPRAPWIEQSGPYWDRQTKYKQRAQADRVNLRKL 106
 Qy 61 RRYNQSEAGSHTLQGMNGCDMPDGLRLRGYHQHAWDGKDYISLNEDLSRWSAADAQ 120
 Db 107 GYTNQSEAGSHTWQRMVGCGLDGLRLRGYHQHAWDGKDYISLNEDLSRWSAADAQ 166
 Qy 121 TORPYAEYAEFRYLYEGECLELLRRYLENGKETLQADPPKHAHVAHPISDHEATLR 180
 Db 167 TORKEAREAEQWRAYLEGTCVWELRYLENGKETLQADPPKHAHVAHPISDHEATLR 226

Qy 181 CWALGFYPAEITLWQDGEQDTDELVELTRPAG 215
 Db 227 CWALGFYPAEITLWQDGEQDTDELVELTRPAG 261

Query Match 76.3%; Score 895; DB 5; Length 362;
 Best Local Similarity 77.7%; Pred. No. 1.4e-80;
 Matches 167; Conservative 14; Mismatches 34; Indels 0; Gaps 0;

Qy 1 IAVEYVDDTQFLRFDSDAAIPRMEPPWVEQSGPOYWEWTTGYAKANAOTDRVALRNL 60
 Db 47 ITGVYVDDTLFVRFSDATSPRKEPRAPWIEQSGPYWDRQTKYKQRAQADRVNLRKL 106
 Qy 61 RRYNQSEAGSHTLQGMNGCDMPDGLRLRGYHQHAWDGKDYISLNEDLSRWSAADAQ 120
 Db 107 GYTNQSEAGSHTWQRMVGCGLDGLRLRGYHQHAWDGKDYISLNEDLSRWSAADAQ 166
 Qy 121 TORPYAEYAEFRYLYEGECLELLRRYLENGKETLQADPPKHAHVAHPISDHEATLR 180
 Db 167 TORKEAREAEQWRAYLEGTCVWELRYLENGKETLQADPPKHAHVAHPISDHEATLR 226

Qy 181 CWALGFYPAEITLWQDGEQDTDELVELTRPAG 215
 Db 227 CWALGFYPAEITLWQDGEQDTDELVELTRPAG 261

Query Match 76.3%; Score 895; DB 5; Length 362;
 Best Local Similarity 77.7%; Pred. No. 1.4e-80;
 Matches 167; Conservative 14; Mismatches 34; Indels 0; Gaps 0;

Qy 1 IAVEYVDDTQFLRFDSDAAIPRMEPPWVEQSGPOYWEWTTGYAKANAOTDRVALRNL 60
 Db 47 ISGVYVDDTQFVRFSDAASPRGEPAPWVEQSGPYWDRQTKYKQRAQADRVNLRKL 106
 Qy 61 RRYNQSEAGSHTLQGMNGCDMPDGLRLRGYHQHAWDGKDYISLNEDLSRWSAADAQ 120
 Db 107 GYTNQSEAGSHTLQGMNGCDLPDGLRLRGYHQHAWDGKDYISLNEDLSRWSAADAQ 166
 Qy 121 TORPYAEYAEFRYLYEGECLELLRRYLENGKETLQADPPKHAHVAHPISDHEATLR 180
 Db 167 TORKEAREAEQWRAYLEGTCVWELRYLENGKETLQADPPKHAHVAHPISDHEATLR 226

Qy 181 CWALGFYPAEITLWQDGEQDTDELVELTRPAG 215
 Db 227 CWALGFYPAEITLWQDGEQDTDELVELTRPAG 261

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Qy 1 IAVEYVDDTOFLRFDSDAAIPRMEPRPFWVEQEGPQYWEWTTGYAKANAQOTDRVALRNL 60
Db   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 47 ITVGIVDDTLFVRFDSDATSPKPRAPWIEQEGPEYWDRETQISKNTQTYRESLRNL 106
Db   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 61 RRYNQSEAGSHTLQMGNGCDMPDGRLLRGYHQHAWDGKQYISLNEDLRSWTAADTVAQI 120
Db   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 107 GYNNQSEAGSHTQRMYGCDLGPDCGRLLRGYNQLAYDCKQYIALNEDLSSWTAADTAAQI 166
Db   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 121 TORFYBAEEYAEFFRTYLEGECLELLRRYLENGKETLORADPPKAVVAHHPISDHEATLR 180
Db   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 167 TQKWEAARVAEQDRAYLEGLCVESLRRYLENGKETLORADPPKTHVTHHPISDHEATLR 226
Db   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 181 CWALGFYPAEITLTWQDGBEOTDTLVEITRPAG 215
Db   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 227 CWALGFYPAEITLTWQDGBEOTDTLVEITRPAG 261
Db   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Search completed: April 7, 2006, 13:05:58
Job time : 73.0035 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: April 7, 2006, 12:39:36 ; Search time 35.7321 Seconds
(without alignments)
837.583 Million cell updates/sec

Title: US-09-819-371-4
Perfect score: 1922
Sequence: 1 MAPRSLLLSGALALTDW.....QAAVTSAGSGVSLTANKV 362

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/prodata/1/iaa/5 COMB.pep.*
2: /cgn2_6/prodata/1/iaa/6 COMB.pep.*
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4: /cgn2_6/prodata/1/iaa/PCTUS COMB.pep.*
5: /cgn2_6/prodata/1/iaa/RE COMB.pep.*
6: /cgn2_6/prodata/1/iaa/backfilese1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1911	99.4	362	2	US-09-949-016-8242 Sequence 8242, Ap
2	1497	77.9	365	1	US-08-484-905-100 Sequence 100, App
3	1497	77.9	365	2	US-08-481-985B-100 Sequence 100, App
4	1497	77.9	365	2	US-08-652-265-23 Sequence 23, App1
5	1497	77.9	365	2	US-08-834-497A-23 Sequence 23, App1
6	1497	77.9	365	2	US-08-370-476-100 Sequence 100, App
7	1497	77.9	365	2	US-09-503-444A-23 Sequence 100, App
8	1494	77.7	365	1	US-08-484-905-99 Sequence 99, App1
9	1494	77.7	365	1	US-08-484-905-104 Sequence 99, App1
10	1494	77.7	365	2	US-08-481-985B-99 Sequence 99, App1
11	1494	77.7	365	2	US-08-481-985B-104 Sequence 104, App
12	1494	77.7	365	2	US-08-370-476-99 Sequence 99, App1
13	1494	77.7	365	2	US-08-370-476-104 Sequence 104, App
14	1490	77.5	365	1	US-08-484-905-97 Sequence 97, App1
15	1490	77.5	365	1	US-08-484-905-98 Sequence 98, App1
16	1490	77.5	365	2	US-08-481-985B-97 Sequence 97, App1
17	1490	77.5	365	2	US-08-481-985B-98 Sequence 98, App1
18	1490	77.5	365	2	US-08-370-476-97 Sequence 97, App1
19	1490	77.5	365	2	US-08-370-476-98 Sequence 98, App1
20	1485	77.3	365	1	US-08-484-905-103 Sequence 103, App
21	1485	77.3	365	2	US-08-481-985B-103 Sequence 103, App
22	1485	77.3	365	2	US-08-370-476-103 Sequence 103, App
23	1484	77.2	365	1	US-08-484-905-102 Sequence 102, App
24	1484	77.2	365	2	US-08-481-985B-102 Sequence 102, App
25	1484	77.2	365	2	US-08-370-476-102 Sequence 102, App
26	1476	76.8	365	1	US-08-484-905-101 Sequence 101, App
27	1476	76.8	365	2	US-08-481-985B-101 Sequence 101, App

28	1476	76.8	365	2	US-08-370-476-101	Sequence 101, App
29	1424	74.1	338	2	US-09-949-016-6176	Sequence 6176, Ap
30	1424	74.1	339	2	US-09-949-016-8636	Sequence 8636, Ap
31	1402	72.9	341	2	US-08-890-719-38	Sequence 38, Appl
32	1356	70.6	360	2	US-09-949-016-8370	Sequence 8370, Ap
33	1350	70.2	358	2	US-09-949-016-6620	Sequence 6620, Ap
34	1293	67.3	361	2	US-08-914-372C-8	Sequence 8, Appl1
35	1290	67.1	363	2	US-08-914-372C-37	Sequence 37, Appl1
36	1282	66.7	364	2	US-08-914-372C-12	Sequence 12, Appl1
37	1264.5	65.8	361	2	US-08-652-265-22	Sequence 22, Appl1
38	1264.5	65.8	361	2	US-08-834-497A-22	Sequence 22, Appl1
39	1264.5	65.8	361	2	US-09-503-444A-22	Sequence 22, Appl1
40	1256	65.3	364	2	US-08-914-372C-10	Sequence 10, Appl1
41	1250	65.0	364	2	US-08-914-372C-11	Sequence 11, Appl1
42	1241	64.6	274	1	US-08-222-851-1	Sequence 1, Appl1
43	1237	64.4	361	2	US-08-914-372C-9	Sequence 9, Appl1
44	1224	63.7	361	2	US-08-914-372C-9	Sequence 9, Appl1
45	1143	59.5	274	1	US-08-484-905-107	Sequence 107, App

ALIGNMENTS

RESULT 1
US-09-949-016-8242
; Sequence 8242, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8242
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-8242

Query Match	99.4%;	Score 1911;	DB 2;	Length 362;
Best Local Similarity	99.4%;	Pred. No. 9.7e-181;		
Matches 360;	Conservative 0;	Mismatches 2;	Indels 0;	Gaps 0;
QY	1	MAPRSLLLSGALALTDWAGSHSLRYFSTAVSRPGRGEPRYIAVEYVDDTQFLRFSD	60	
DB	1	MAPRSLLLSGALALTDWAGSHSLRYFSTAVSRPGRGEPRYIAVEYVDDTQFLRFSD	60	
QY	61	RAIPMEPREPWVEQEGPYQWETTTGYAKANAQTDVRLNLLRRYNQSEAGSHTLQGNV	120	
DB	61	RAIPMEPREPWVEQEGPYQWETTTGYAKANAQTDVRLNLLRRYNQSEAGSHTLQGNV	120	
QY	121	CGDMGPDGRLLRGYHQHAYDGDYISLNEDLSWTAADTVAQITQRFYBAEYAEFRFY	180	
DB	121	CGDMGPDGRLLRGYHQHAYDGDYISLNEDLSWTAADTVAQITQRFYBAEYAEFRFY	180	
QY	181	LEGECELLRLRYLNGLETLQADPPKAVHHPISDHEATLRCWALGYPAEITLTWQR	240	
DB	181	LEGECELLRLRYLNGLETLQADPPKAVHHPISDHEATLRCWALGYPAEITLTWQR	240	
QY	241	DGEETQDTTELVTETPAGDGTFOKWAADVVPSEGEQRYTCHVQHEGLPOLPLLRWEQSPQ	300	
DB	241	DGEETQDTTELVTETPAGDGTFOKWAADVVPSEGEQRYTCHVQHEGLPOLPLLRWEQSPQ	300	
QY	301	PTPIVIGIVAGLVILGAVVTGAVVAAMVRKKSDRNRGYSQAATVDSAQSGSVSLTAN	360	

Db 301 PPIPIVGIAGLVVLGAVVTGAVVAAMVRKSSDRNGSYQAQAVTDSAQSGVSLTAN 360
QY 361 KV 362
Db 361 KV 362

RESULT 2

US-08-484-905-100
; Sequence 100, Application US/08484905
; Patent No. 5976551
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: An Altered Major Histocompatibility
; TITLE OF INVENTION: Complex (MHC) Determinant and Methods for Using the
; TITLE OF INVENTION: Determinant
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS-/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,905
; FILING DATE: 07-JUNE-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 03495.0106-03000
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 100:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-905-100

Query Match 77.9%; Score 1497; DB 1; Length 365;
Best Local Similarity 77.6%; Pred. No. 1e-139;
Matches 281; Conservative 29; Mismatches 52; Indels 0; Gaps 0;
QY 1 MAPSRLLLLSALALTDWAGSHSLRYFSTAVSRGCEPRYIAVEYVDDTFQFRFSD 60
Db 4 MAPRTVLILLSALALTQWAGSHSMRYFTYSVRGCEPRFIAGVYVDDTFQFRFSD 63
QY 61 AAIPEPPEPVEQGPQYEWTTGYAKANAQTDKVALNLLRNNYNOSEAGSHTLQGN 120
Db 64 AASQMEPAPWIEQGEYWDGETKVKAKHSQTHRVLDLSTLRGYNQSEAGSHVQRMF 123
QY 121 GCDMGPDGRLRGYHQHVDGKDYISLNEBLSWTAADTVAQITQRFVEAEYAEFTY 180

Db 124 GCDVSGDRFLRGYHQYAYDGKDYIALKEDLRSWTAADMAAQTTKKWEAAHVAQLRAY 183
QY 181 LEGECLELLRRYLENGLETQADPPKAKVAHHFISDHEATLRCWALGFYPABIITLTWQR 240
Db 184 LEGTCVEWLRRYLENGKETLQRTDAPKTHMTHHAVSDHEATLRCWALSIFYPAEITLTWQR 243
QY 241 DDEEQTQDTVELVETRPAGDGTFOKAAVVPVSGEQRVYTCVQHEGLPQPLILRWEQSPQ 300
Db 244 DGEDQTQDTVELVETRPAGDGTFOKAAVVPVSGEQRVYTCVQHEGLPKPLTLPEPSSQ 303
QY 301 PPIPIVGIAGLVVLGAVVTGAVVAAMVRKSSDRNGSYQAQAVTDSAQSGVSLTAN 360
Db 304 PPIPIVGIAGLVVLGAVVTGAVVAAMVRKSSDRNGSYQAQAVTDSAQSGVSLTAC 363
QY 361 KV 362
Db 364 KV 365

RESULT 3

US-08-481-985B-100
; Sequence 100, Application US/08481985B
; Patent No. 6011146
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: Altered Major Histocompatibility Complex
; TITLE OF INVENTION:
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/481,985B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 03495.0106-04000
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 100:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-481-985B-100

Query Match 77.9%; Score 1497; DB 2; Length 365;
Best Local Similarity 77.6%; Pred. No. 1e-139;
Matches 281; Conservative 29; Mismatches 52; Indels 0; Gaps 0;

Qy	1	MAPRSLLLLLSGALATDTWAGSHSLRYFSTAVSRPGRGEPRIYAVYVDVDTQFLRPSD	60
Db	4	MAPRTVLVLLSGALATQTWAGSHSWRYFTYTSVSRPGRGEPRTIYGVYVDVDTQFVRPSD	63
Qy	61	AATPRMEPRPWPVEQGPQYWTWTTGYKAKANAQTDRVALRMLRLRYNQSAGSHTLQGMN	120
Db	64	AASQRMPEPAPWTEQGPYWDGERTYKVAHSQTHRVDLSTLRGYNNOSEAGSHTVQRMF	123
Qy	121	GCDMGDGRLLRGYHQHAYDGDYISLNEDLRSMTAADTVAQITQRFYPAEYAAEFPRTY	180
Db	124	GCDVSGDGRFLRGYHQYAYDGDYITALKEDLRSMTAADMAQTTHKWEAAHVAEQLRAY	183
Qy	181	LEGECLLELRRYLENGLETQRADPPKAAHVAHPISDHEATLRCWALGYPABEITLWQR	240
Db	184	LEGTCTVEWLRRYLENGKETLQRTDAPKTHMTHAVSDHEATLRCWALSFFPABEITLWQR	243
Qy	241	DGEEOQTDELVETPRPAGDGTFOKAAVVPVPSGGEQRTYCHVQHEGLPQPLILRWESQPQ	300
Db	244	DGEDQTQDELVETPRPAGDGTFOKAAVVPVPSGGEQRTYCHVQHEGLPKPLTLPWPSPSQ	303
Qy	301	PTPIPIVGIYAGLVVLGAVVTGAVVAAMWVRKKSSDRNRGYSOAAVTDSAQGSVSLTAN	360
Db	304	PTPIPIVGIAGLVLFGAIVTGAVVAAMWVRKKSSDRKGSYQAASDSDAQSDVSLTAC	363
Qy	361	KV 362	
Db	364	KV 365	

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RESULT 4
US-08-652-265-23
/ Sequence 23, Application US/08652265
/ Patent No. 6025130
/ GENERAL INFORMATION:
/ APPLICANT: Thomas, Winston J.
/ APPLICANT: Drayna, Dennis T.
/ APPLICANT: Feder, John N.
/ APPLICANT: Gnirke, Andreas
/ APPLICANT: Ruddy, David
/ APPLICANT: Tsuchihashi, Zenta
/ APPLICANT: Wolff, Roger K.
/ TITLE OF INVENTION: Hereditary Hemochromatosis Gene
/ NUMBER OF SEQUENCES: 44
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Townsend and Townsend and Crew LLP
/ STREET: Two Embarcadero Center, Eighth Floor
/ CITY: San Francisco
/ STATE: California
/ COUNTRY: USA
/ ZIP: 94111-3834
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/652,265
/ FILING DATE: 23-MAY-1996
/ CLASSIFICATION: 514
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Smith, William M.
/ REGISTRATION NUMBER: 30, 223
/ REFERENCE/DOCKET NUMBER: 17957-000500
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (415) 576-0200
/ TELEFAX: (415) 576-0300
/ INFORMATION FOR SEQ ID NO: 23:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 365 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein

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RESULT 5
US-08-834-497A-23
; Sequence 23, Application US/08834497A
; Patent No. 6140305
; GENERAL INFORMATION:
; APPLICANT: Thomas, Winston J.
; APPLICANT: Drayna, Dennis T.
; APPLICANT: Feder, John N.
; APPLICANT: Gniirke, Andreas
; APPLICANT: Ruddy, David
; APPLICANT: Tsuchihashi, Zenta
; APPLICANT: Wolff, Roger K.
; TITLE OF INVENTION: HEREDITARY HEMOCHROMATOSIS GENE PRODUCTS
; NUMBER OF SEQUENCES: 76
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/834,497A
; FILING DATE: 04-APR-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/652,265
; FILING DATE: 23-MAY-1996

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Db 304 PTPIVGIAGLVFGAVITGAVAAVMWRKSSDRKGSYQAASSDSAQGSDVSLTAC 363
 QY 361 KV 362
 Db 364 KV 365

RESULT 7

US-09-503-444A-23
 ; Sequence 23, Application US/09503444A
 ; Patent No. 6228594
 ; GENERAL INFORMATION:
 ; APPLICANT: Thomas, Winston J.
 ; APPLICANT: Drayna, Dennis T.
 ; APPLICANT: Feder, John N.
 ; APPLICANT: Gnirke, Andreas
 ; APPLICANT: Ruddy, David
 ; APPLICANT: Teuchihaashi, Zenta
 ; APPLICANT: Wolff, Roger K.
 ; TITLE OF INVENTION: Hereditary Hemochromatosis Gene
 ; NUMBER OF SEQUENCES: 44
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Pennie & Edmonds LLP
 ; STREET: 1155 Avenue of the Americas
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: Windows 95
 ; SOFTWARE: WordPerfect Version 8
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/503,444A
 ; FILING DATE: 14-Feb-2000
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/652,265
 ; FILING DATE: 23-May-1996
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/632,673
 ; FILING DATE: 16-Apr-1996
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/630,912
 ; FILING DATE: 04-Apr-1996
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Poissant, Brian M.
 ; REGISTRATION NUMBER: 28,462
 ; REFERENCE/DOCKET NUMBER: 8907-0088-999
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 212-790-9090
 ; TELEFAX: 212-869-9741
 ; TELEX: 66141
 ; INFORMATION FOR SEQ ID NO: 23:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 365 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; FEATURE:
 ; NAME/KEY: Protein
 ; LOCATION: 1..365
 ; OTHER INFORMATION: /note= "Human Major Histocompatibility
 ; OTHER INFORMATION: Class I (MHC) protein"
 ; US-09-503-444A-23

Query Match 77.9%; Score 1497; DB 2; Length 365;
 Best Local Similarity 77.9%; Pred. No. 1e-139;
 Matches 282; Conservative 28; Mismatches 52; Indels 0; Gaps 0;
 QY 1 MAPRSLLLSGALALTQWAGSHSLRYFSTAVSRPGRGPRYIAVEYVDDTQFLRFDSD 60

Db 4 MAPRSLLLSGALALTQWAGSHSLRYFSTAVSRPGRGPRYIAVEYVDDTQFLRFDSD 63
 QY 61 AAIPEWEPREPWVEQSGPYWETTTGYAKANAQTDORVALRNLRLRRYNSQSEAGSHTLOGNN 120
 Db 64 AASQWEPRAPIWIEQSGPEYMDGETRKVKAKHSQTHRVLDLGTLRGYNSQSEAGSHTLOMMP 123
 QY 121 GCDMGPDGRLRGYHQHAYDGDYISLNEDELSWTAADTVAQITQRFYEABEYABEFRTY 180
 Db 124 GCDVGDWRFLRGYHQYAYDGYIALKEDLSWTAADMAAQTTKHKEAAHVAEQLRAY 183
 QY 181 LECECLELLRRLYLENGLETQADPPKAVHHPISDHEATLRCWALGFYPAEITLTWQR 240
 Db 184 LEGTCVEWLRLYLENGKETLQTDAPKTHMTHAVSDHEATLRCWALGFYPAEITLTWQR 243
 QY 241 DGEECTQDTLVTETRPAGDGTQKWAAVVPSGEGORYTCHVQHEGLPQPLLRWEQSPQ 300
 Db 244 DGEDTQDTLVTETRPAGDGTQKWAAVVPSGEGORYTCHVQHEGLPQPLLRWEQSPQ 303
 QY 301 PTPIVGIAGLVFGAVITGAVAAVMWRKSSDRKGSYQAASSDSAQGSDVSLTAN 360
 Db 304 PTPIVGIAGLVFGAVITGAVAAVMWRKSSDRKGSYQAASSDSAQGSDVSLTAC 363
 QY 361 KV 362
 Db 364 KV 365

RESULT 8

US-08-484-905-99
 ; Sequence 99, Application US/08484905
 ; Patent No. 5976551
 ; GENERAL INFORMATION:
 ; APPLICANT: Mottez, Estelle
 ; APPLICANT: Abastado, Jean-Pierre
 ; APPLICANT: Kourilsky, Philippe
 ; TITLE OF INVENTION: An Altered Major Histocompatibility
 ; TITLE OF INVENTION: Complex (MHC) Determinant and Methods for Using the
 ; NUMBER OF SEQUENCES: 127
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
 ; ADDRESSEE: Dunner
 ; STREET: 1300 I Street, N.W., Suite 700
 ; CITY: Washington
 ; STATE: D.C.
 ; ZIP: 20005-3315
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS-/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/484,905
 ; FILING DATE: 07-JUNE-1995
 ; CLASSIFICATION: 530
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/801,818
 ; FILING DATE: 05-DEC-1991
 ; CLASSIFICATION: 530
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/792,473
 ; FILING DATE: 15-NOV-1991
 ; CLASSIFICATION: 530
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Potter, Jane E. R.
 ; REGISTRATION NUMBER: 33,332
 ; REFERENCE/DOCKET NUMBER: 03495.0106-03000
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-408-4000
 ; TELEFAX: 202-408-4400
 ; INFORMATION FOR SEQ ID NO: 99:
 ; SEQUENCE CHARACTERISTICS:

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;
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-905-99

Query Match          77.7%; Score 1494; DB 1; Length 365;
Best Local Similarity 77.3%; Pred. No. 2e-139;
Matches 280; Conservative 30; Mismatches 52; Indels 0; Gaps 0;

Qy 1 MAPSLLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRIYAVEYVDDTQFLRFDSD 60
Db 4 MAPRTLVLSSGALALTDTWAGSHSMRYFFTSVSRPGRGEPRIYAVGVDDTQFVRFSD 63
Qy 61 AAIPRMEPREPWQEGPQYMEWTGAKANAQTDRLVALRNLRLRRYNOSEAGSHTLOGMN 120
Db 64 AASQMEPRAPWIEQEGPEYWDFTNRNVKASQTDRLVDSLTLRGYNOSEAGSHTIQMY 123
Qy 121 GCDMPDGLRLRGYHQYADGKVIISNEDLSRWTAADTVAQITQRFYEAEEYFRTY 180
Db 124 GCDVSGDGRFLRGYHQYADGKVIYALKEDLSRWTAADMAAQTTHKWEAAHAEQWRA 183
Qy 181 LEGECLELLRRLYENGLTLQADPPKAAHVAHPHISDHEATLRCWALGFYPAEITLTWQ 240
Db 184 LEGTCVEWLRRLYENGLKETTQRTDAPKTHMTHAVSDHEATLRCWALSFYPAEITLTW 243
Qy 241 DGEOTQDTLVELTRPAGDGTFOKAAVVPVSGEORYTCHVQHEGLPQPLILRWEQSPQ 300
Db 244 DGEDQDTLVELTRPAGDGTFOKAAVVPVSGEORYTCHVQHEGLPKPLTLPEPSSQ 303
Qy 301 PTIPVIGIAGLVGLAVVTGAVVAAMVRKSSDRNRGSYSQAAVTDSAGSGVSLTAN 360
Db 304 PTIPVIGIAGLVGLFVAVTGAVVAAMVRKSSDRKGSYSQAASSDSAGSDVSLTAC 363
Qy 361 KV 362
Db 364 KV 365

RESULT 9
US-08-484-905-104
; Sequence 104, Application US/08484905
; Patent No. 5976551
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: An Altered Major Histocompatibility
; TITLE OF INVENTION: Complex (MHC) Determinant and Methods for Using the
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS-/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,905
; FILING DATE: 07-JUNE-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
```

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;
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 03495.0106-03000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-905-104

Query Match          77.7%; Score 1494; DB 1; Length 365;
Best Local Similarity 77.3%; Pred. No. 2e-139;
Matches 280; Conservative 29; Mismatches 53; Indels 0; Gaps 0;

Qy 1 MAPSLLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRIYAVEYVDDTQFLRFDSD 60
Db 4 MAPRTLVLSSGALALTDTWAGSHSMRYFFTSVSRPGRGEPRIYAVGVDDTQFVRFSD 63
Qy 61 AAIPRMEPREPWQEGPQYMEWTGAKANAQTDRLVALRNLRLRRYNOSEAGSHTLOGMN 120
Db 64 AASQMEPRAPWIEQEGPEYWDFTNRNVKASQTDRLVDSLTLRGYNOSEAGSHTIQMY 123
Qy 121 GCDMPDGLRLRGYHQYADGKVIISNEDLSRWTAADTVAQITQRFYEAEEYFRTY 180
Db 124 GCDVSGDGRFLRGYHQYADGKVIYALKEDLSRWTAADMAAQTTHKWEAAHAEQWRA 183
Qy 181 LEGECLELLRRLYENGLTLQADPPKAAHVAHPHISDHEATLRCWALGFYPAEITLTWQ 240
Db 184 LEGTCVEWLRRLYENGLKETTQRTDAPKTHMTHAVSDHEATLRCWALSFYPAEITLTW 243
Qy 241 DGEOTQDTLVELTRPAGDGTFOKAAVVPVSGEORYTCHVQHEGLPQPLILRWEQSPQ 300
Db 244 DGEDQDTLVELTRPAGDGTFOKAAVVPVSGEORYTCHVQHEGLPKPLTLPEPSSQ 303
Qy 301 PTIPVIGIAGLVGLAVVTGAVVAAMVRKSSDRNRGSYSQAAVTDSAGSGVSLTAN 360
Db 304 PTIPVIGIAGLVGLFVAVTGAVVAAMVRKSSDRKGSYSQAASSDSAGSDVSLTAC 363
Qy 361 KV 362
Db 364 KV 365

RESULT 10
US-08-481-985B-99
; Sequence 99, Application US/08481985B
; Patent No. 6011146
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: Altered Major Histocompatibility Complex
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/481,985B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 03495.0106-04000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 99:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-481-985B-99

Query Match 77.7%; Score 1494; DB 2; Length 365;
Best Local Similarity 77.3%; Pred. No. 2e-139;
Matches 280; Conservative 30; Mismatches 52; Indels 0; Gaps 0;

QY 1 MAPRSLLLSGALALDTWAGSHSLRYFSTAVSRPGRGPRRYIAVYVDDTQFURPDS 60
DB 4 MAPRTLVLSSGALALDTWAGSHSLRYFSTAVSRPGRGPRRYIAVYVDDTQFURPDS 63
QY 61 AAIPEPMEPREPVEQEGPYWETTTGYAKANAQTDVLRVALLRRLRYNOSEAGSHTLQGN 120
DB 64 AASQMEPRAPIWIEQEGPEYDFGTRKVAHSAQTHRVLDLSTLRGYNOSEAGSHTVQRM 123
QY 121 GCDMGPDGRLRGYHQHAYDGDYISLNEEDLSRSTAADTVAQITQRFYEAEBEYAEPRTY 180
DB 124 GCDVSGDGRFLRGYHQHAYDGDYISLNEEDLSRSTAADTVAQITQRFYEAEBEYAEPRTY 183
QY 181 LEGECLELLRRLRYLENGLETQADPPKAVHAPHISDHEATLRCWALGFYPAEITLTW 240
DB 184 LEGTCVWLRLRYLENGKETLQTDAPKTHMTHAVSDHEATLRCWALGFYPAEITLTW 243
QY 241 DGEQTDQTELVELTRPAGDGTFOKAAVAVVPSGEGRYTCHVQHEGLPKPLTLPEPSSQ 300
DB 244 DGEQTDQTELVELTRPAGDGTFOKAAVAVVPSGEGRYTCHVQHEGLPKPLTLPEPSSQ 303
QY 301 PTPIVIGIVAGLVGLVAVVTGAVVAAMVRKSSDRNRGYSQAAVTDSAGSGVSLTAN 360
DB 304 PTPIVIGIAGLVGLVAVVTGAVVAAMVRKSSDRNRGYSQAAVTDSAGSGVSLTAN 363
QY 361 KV 362
DB 364 KV 365

RESULT 11
US-08-481-985B-104
; Sequence 104, Application US/08481985B
; Patent No. 6011146
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: Altered Major Histocompatibility Complex
; TITLE OF INVENTION:
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &

```

```

; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/481,985B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 03495.0106-04000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-481-985B-104

Query Match 77.7%; Score 1494; DB 2; Length 365;
Best Local Similarity 77.3%; Pred. No. 2e-139;
Matches 280; Conservative 29; Mismatches 53; Indels 0; Gaps 0;

QY 1 MAPRSLLLSGALALDTWAGSHSLRYFSTAVSRPGRGPRRYIAVYVDDTQFURPDS 60
DB 4 MAPRTLVLSSGALALDTWAGSHSLRYFSTAVSRPGRGPRRYIAVYVDDTQFURPDS 63
QY 61 AAIPEPMEPREPVEQEGPYWETTTGYAKANAQTDVLRVALLRRLRYNOSEAGSHTLQGN 120
DB 64 AASQMEPRAPIWIEQEGPEYDFGTRKVAHSAQTHRVLDLSTLRGYNOSEAGSHTIQMY 123
QY 121 GCDMGPDGRLRGYHQHAYDGDYISLNEEDLSRSTAADTVAQITQRFYEAEBEYAEPRTY 180
DB 124 GCDVSGDGRFLRGYHQHAYDGDYISLNEEDLSRSTAADTVAQITQRFYEAEBEYAEPRTY 183
QY 181 LEGECLELLRRLRYLENGLETQADPPKAVHAPHISDHEATLRCWALGFYPAEITLTW 240
DB 184 LEGTCVWLRLRYLENGKETLQTDAPKTHMTHAVSDHEATLRCWALGFYPAEITLTW 243
QY 241 DGEQTDQTELVELTRPAGDGTFOKAAVAVVPSGEGRYTCHVQHEGLPKPLTLPEPSSQ 300
DB 244 DGEQTDQTELVELTRPAGDGTFOKAAVAVVPSGEGRYTCHVQHEGLPKPLTLPEPSSQ 303
QY 301 PTPIVIGIVAGLVGLVAVVTGAVVAAMVRKSSDRNRGYSQAAVTDSAGSGVSLTAN 360
DB 304 PTPIVIGIAGLVGLVAVVTGAVVAAMVRKSSDRNRGYSQAAVTDSAGSGVSLTAN 363
QY 361 KV 362
DB 364 KV 365

RESULT 12
US-08-370-476-99
; Sequence 99, Application US/08370476

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; Patent No. 6153408
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; APPLICANT: Lone, Yu-Chun
; APPLICANT: Ojcius, David
; APPLICANT: Casrouge, Armanda
; TITLE OF INVENTION: Altered Major Histocompatibility Complex
; TITLE OF INVENTION:
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/370,476
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/117,575
; FILING DATE: 07-SEP-1993
; APPLICATION NUMBER: US 08/072,787
; FILING DATE: 06-JUN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 05243-0001-01000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4400
; INFORMATION FOR SEQ ID NO: 99:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-370-476-99

Query Match 77.7%; Score 1494; DB 2; Length 365;
Best Local Similarity 77.3%; Pred. No. 2e-139;
Matches 280; Conservative 30; Mismatches 52; Indels 0; Gaps 0;

QY 1 MAPRILLISGALALTDTWAGSHSLRYESTAVSRGRGEPRYIAVEYVDDTQFLRFSD 60
DB 4 MAPRTLVLLLSGALALTQTWAGSHSMRYFTSVSRGRGEPRFIAGVYVDDTQFLRFSD 63
QY 61 AAIPEPREPVEQEGPOYEWTTGYAKANAQTDRVALRNLLRRYNQSEAGSHTLQGN 120
DB 64 AASQMEPRAPWIEQEGPEYWDGTRKVKASHQTHRVDLSTLRGYNQSEAGSHTVQRM 123
QY 121 GCDMGPDGELLRGYHQHVDGDKYISLNEDLSWTAADTVAQITQRFYAEYAEPRTY 180
DB 124 GCDVSGDGRFLRGYHQYDGDYKITALKEDLSWTAADMAAQTTHKWEATAEAQWRA 183
QY 181 LEQECLELLRRYLENGLETQRADPPKAVAHHPISDHEATLRCWALGFYPAEITLTW 240
DB 184 LSGTCVEMURRYLENGKETLQTDAPKTHWTHAVSDHEATLRCWALSFPYAEITLTW 243

; Patent No. 6153408
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; APPLICANT: Lone, Yu-Chun
; APPLICANT: Ojcius, David
; APPLICANT: Casrouge, Armanda
; TITLE OF INVENTION: Altered Major Histocompatibility Complex
; TITLE OF INVENTION:
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/370,476
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/117,575
; FILING DATE: 07-SEP-1993
; APPLICATION NUMBER: US 08/072,787
; FILING DATE: 06-JUN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 05243-0001-01000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4400
; INFORMATION FOR SEQ ID NO: 99:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-370-476-99

; Patent No. 6153408
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; APPLICANT: Lone, Yu-Chun
; APPLICANT: Ojcius, David
; APPLICANT: Casrouge, Armanda
; TITLE OF INVENTION: Altered Major Histocompatibility Complex
; TITLE OF INVENTION:
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/370,476
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/117,575
; FILING DATE: 07-SEP-1993
; APPLICATION NUMBER: US 08/072,787
; FILING DATE: 06-JUN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 05243-0001-01000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4400
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-370-476-104

Query Match 77.7%; Score 1494; DB 2; Length 365;
Best Local Similarity 77.3%; Pred. No. 2e-139;
Matches 280; Conservative 29; Mismatches 53; Indels 0; Gaps 0;
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DB 64 AASQRMPEPAPWIEQGPYVWETTRVNAQSDTRVNLSTLRGYNNOSEAGSHTLQGNV 123
QY 121 GCDMPDGLRLRGYHQAIDGKDYISLNEDLSRSTAAADTVAQITQRFYEAEBYAEFFRTY 180
DB 124 GCDVSGDWRFLRGYHQAIDGKDYIALKEDLSRSTAAADTVAQITQRFYEAEBYAEFFRTY 183
QY 181 LEGECLELLRLRYLENGLETQADPPKAHVAHPISDHEATLRCWALGYPAEITLTWOR 240
DB 184 LEGTCVWLRRLRYLENGKETLQRTDAPKTHMTHAVSDHEATLRCWALSFPYPAEITLTWOR 243
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DB 244 DGEBOQTDELVELVETRPAGDGTFOKWAAVVVPSEGEORYTCHVQHEGLPQPLTLRWEQSPQ 303
QY 301 PTPIVIGIAGLVGLVAVVTGAVVAAMVRKSSDRNRGYSQAQVDSQAQSGVSLTAN 360
DB 304 PTPIVIGIAGLVGLVAVVTGAVVAAMVRKSSDRNRGYSQAQVDSQAQSGVSLTAN 363
QY 361 KV 362
DB 364 KV 365

RESULT 14

US-08-484-905-97
; Sequence 97, Application US/08484905
; Patent No. 5976551
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: An Altered Major Histocompatibility
; TITLE OF INVENTION: Complex (MHC) Determinant and Methods for Using the
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS-/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,905
; FILING DATE: 07-JUNE-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 03495.0106-03000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 97:

; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-905-97

Query Match 77.5%; Score 1490; DB 1; Length 365;
Best Local Similarity 77.3%; Pred. No. 5.1e-139;
Matches 280; Conservative 29; Mismatches 53; Indels 0; Gaps 0;

QY 1 MAPRSLLLSSGALALDTWAGSHSLRYPSTAVSRPGRGEPRIYIAVEYVDDTQFLRFDSD 60
DB 4 MAPRTVLVLLSGALALTOTWAGSHSMRYFTSVSRPGRGEPRIYIAVYVDDTQFLRFDSD 63
QY 61 AALPRMEPREPWEOGPGYVWETTCYAKANAQTDVALRNLRLRYNNOSEAGSHTLQGNV 120
DB 64 AASQRMPEPAPWIEQGPYVWETTRVNAQSDTRVNLSTLRGYNNOSEAGSHTLQGNV 123
QY 121 GCDMPDGLRLRGYHQAIDGKDYISLNEDLSRSTAAADTVAQITQRFYEAEBYAEFFRTY 180
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QY 181 LEGECLELLRLRYLENGLETQADPPKAHVAHPISDHEATLRCWALGYPAEITLTWOR 240
DB 184 LEGTCVWLRRLRYLENGKETLQRTDAPKTHMTHAVSDHEATLRCWALSFPYPAEITLTWOR 243
QY 241 DGEBOQTDELVELVETRPAGDGTFOKWAAVVVPSEGEORYTCHVQHEGLPQPLTLRWEQSPQ 300
DB 244 DGEBOQTDELVELVETRPAGDGTFOKWAAVVVPSEGEORYTCHVQHEGLPQPLTLRWEQSPQ 303
QY 301 PTPIVIGIAGLVGLVAVVTGAVVAAMVRKSSDRNRGYSQAQVDSQAQSGVSLTAN 360
DB 304 PTPIVIGIAGLVGLVAVVTGAVVAAMVRKSSDRNRGYSQAQVDSQAQSGVSLTAN 363
QY 361 KV 362
DB 364 KV 365

RESULT 15

US-08-484-905-98
; Sequence 98, Application US/08484905
; Patent No. 5976551
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: An Altered Major Histocompatibility
; TITLE OF INVENTION: Complex (MHC) Determinant and Methods for Using the
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS-/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,905
; FILING DATE: 07-JUNE-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; CLASSIFICATION: 530
; INFORMATION FOR SEQ ID NO: 97:

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/ APPLICATION NUMBER: US 07/792,473
/ FILING DATE: 15-NOV-1991
/ CLASSIFICATION: 530
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Potter, Jane E. R.
/ REGISTRATION NUMBER: 33,332
/ REFERENCE/DOCKET NUMBER: 03495.0106-03000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 202-408-4000
/ TELEFAX: 202-408-4400
/ INFORMATION FOR SEQ ID NO: 98:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 365 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
US-08-484-905-98

Query Match          77.5%; Score 1490; DB 1; Length 365;
Best Local Similarity 77.3%; Pred. No. 5,1e-139;
Matches 280; Conservative 29; Mismatches 53; Indels 0; Gaps 0;

QY 1 MAPSLLLLSGALALTTWAGSHSLRYSTAVSRPGRGEPRIYAVEYVDDTQFLRFDS 60
Db 4 MAPRTLVLSSGALALTTWAGSHSMRYFYTSVRPGRGEPRIYAVGYVDDTQFVRFDS 63
QY 61 AAIPRMEPREPWEQEGPYWEWTTGYAKANAQTDVVALRNLLRRYNOSEAGSHTLOGMN 120
Db 64 AASQMEPRAPWIEQEGPEYWDGETRKVKAHSQTHRVLDLSTLRGYNOSEAGSHTVQRMV 123
QY 121 GCDMGPDGRLRGYHQHAYDGKDYISLNEDLRSWTAADTVAQITQRFYEAEEYAEFEFTY 180
Db 124 GCDVGSDFRLRGYHQYAYDGKDYIALKEDLRSWTAADMAAQTTKHWKAAHVAEQLRAY 183
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Db 184 LEGTCVEWLRLYLENGKETLQRTDAPKTHMTHHAVSDHEATLRCWALSFPYAEITLTWQR 243
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Db 244 DGEDQDTLVTETPAGDGTFOKAAVVPSEGEQRYTCHVQHEGLPKPLTLPEWPSQ 303
QY 301 PTPIPIVGIVAGLVGLAVVTGAVVAAMVRKKSSDRNRGYSQAQVTDSDAQSGVSLTAN 360
Db 304 PTPIPIVGIIAGLVLFAGVITGAVVAAMVRKKSSDRKGSYSQAASSDSAQGSDVSLTAC 363
QY 361 KV 362
Db 364 KV 365
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Search completed: April 7, 2006, 12:41:56
Job time : 36.7321 secs

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OM protein - protein search, using sw model

Run on: April 7, 2006, 12:59:38 ; Search time 121.234 Seconds
(without alignments)
1247.624 Million cell updates/sec

Title: US-09-819-371-4
Perfect score: 1922
Sequence: 1 MAPRSLLLSGALALTDW.....QAAVTSAGSGVSLTANKV 362

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA_Main:*

1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pep:*

4: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB.pep:*

5: /cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB.pep:*

6: /cgn2_6/prodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1922	100.0	362	3	US-09-819-371-4
2	1916	99.7	362	4	US-10-257-021-82
3	1916	99.7	362	5	US-10-631-467-624
4	1838	95.6	442	4	US-10-408-765A-1887
5	1775	92.4	677	5	US-10-450-763-57085
6	1539	80.1	365	5	US-10-741-600-941
7	1518	79.0	365	5	US-10-287-436A-179
8	1518	79.0	365	5	US-10-287-436A-1268
9	1509	78.5	365	4	US-10-741-601-325
10	1509	78.5	365	4	US-10-741-601-326
11	1509	78.5	365	5	US-10-741-600-939
12	1509	78.5	365	5	US-10-741-600-940
13	1508	78.5	362	5	US-10-631-467-728
14	1497	77.9	365	4	US-10-138-888-23
15	1496.5	77.9	379	4	US-10-093-463-78
16	1496.5	77.9	379	4	US-10-210-172-160
17	1489	77.5	274	3	US-09-819-371-5
18	1474	76.7	362	5	US-10-287-436A-120
19	1474	76.7	362	5	US-10-287-436A-1260
20	1469	76.4	365	5	US-10-128-558-136
21	1459.5	75.9	366	5	US-10-287-436A-101
22	1459.5	75.9	366	5	US-10-287-436A-162
23	1459.5	75.9	366	5	US-10-287-436A-1257
24	1459.5	75.9	366	5	US-10-287-436A-1267
25	1424	74.1	338	4	US-10-741-601-380
26	1424	74.1	338	4	US-10-741-601-388
27	1424	74.1	338	5	US-10-741-600-1134

28	1424	74.1	338	5	US-10-741-600-1138	Sequence 1138, Ap
29	1424	74.1	338	5	US-10-482-029-110	Sequence 110, App
30	1424	74.1	343	4	US-10-741-601-379	Sequence 379, App
31	1424	74.1	343	5	US-10-741-600-1139	Sequence 1139, App
32	1406	73.2	271	3	US-09-925-301-1431	Sequence 1431, Ap
33	1406	73.2	364	4	US-10-093-463-80	Sequence 80, App1
34	1376.5	71.6	371	4	US-10-085-198-72	Sequence 72, App1
35	1376.5	71.6	371	4	US-10-210-172-156	Sequence 156, App
36	1363	70.9	421	4	US-10-138-588-32	Sequence 32, App1
37	1363	70.9	421	4	US-10-210-172-174	Sequence 174, App
38	1302.5	67.8	389	4	US-10-085-198-70	Sequence 70, App1
39	1297.5	67.5	452	4	US-10-085-198-68	Sequence 68, App1
40	1297.5	67.5	452	4	US-10-210-172-152	Sequence 152, App
41	1285	66.9	476	5	US-10-430-984-16	Sequence 16, App1
42	1285	66.9	500	5	US-10-430-984-15	Sequence 15, App1
43	1282	66.7	372	5	US-10-450-255-3	Sequence 3, App1
44	1264.5	65.8	361	4	US-10-138-888-22	Sequence 22, App1
45	1189	61.9	326	4	US-10-380-880-7	Sequence 7, App1

ALIGNMENTS

RESULT 1
US-09-819-371-4
; Sequence 4, Application US/09819371
; Publication No. US20040053344A1
; GENERAL INFORMATION:
; APPLICANT: Egawa, Kohji
; TITLE OF INVENTION: Cancer Cell-Specific HLA-F Antigen and a Diagnostic Method of Ca
; FILE REFERENCE: 30815
; CURRENT APPLICATION NUMBER: US/09/819,371
; CURRENT FILING DATE: 2002-03-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 4
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-819-371-4

Query Match 100.0%; Score 1922; DB 3; Length 362;
Best Local Similarity 100.0%; Pred. No. 2.3e-171;
Matches 362; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MAPRSLLLSGALALTDWAGSHSLRYFSTAVSRPGRGEPRIYAVEYDDTQFLRFDSD	60
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Qy	121	GCDMPDGRLLRGYHQHAYDGYISLNEDLSRMTAADTVAQITQRYEAEYAEFEPTY	180
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Db	361	KV 362	

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RESULT 2
US-10-257-021-82
; Sequence 82, Application US/10257021
; Publication No. US20030211498A1
; GENERAL INFORMATION:
; APPLICANT: Morin, Patrice J.
; APPLICANT: Sherman-Baust, Cheryl A.
; APPLICANT: Pizer, Ellen S.
; APPLICANT: Hough, Colleen D.
; TITLE OF INVENTION: TUMOR MARKERS IN OVARIAN CANCER
; FILE REFERENCE: 14014.036902
; CURRENT APPLICATION NUMBER: US/10/257,021
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: PCT/US01/10947
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: 60/194,336
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-257-021-82

Query Match      99.7%; Score 1916; DB 4; Length 362;
Best Local Similarity 99.7%; Pred. No. 8.3e-171;
Matches 361; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 1 MAPRSLLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRIYAVEYVDDTQFLRFSD 60
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DB 61 AAIPRMEPREPWEQEGPQYEWTTGYAKANAQTDRLVALNLLRRYNOSEAGSHTLQGMN 120
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DB 241 DGEETQDTTELVTETRPAGDGTFOKAAVVPVSGEQRVTCHVQHEGLPQPLILRWEQSPQ 300
QY 301 PTPIPIVGIAGLVAGVVTGAVVAAMVRKSSDRNRGSYSQAAVTDQAQSGSVSLTAN 360
DB 301 PTPIPIVGIAGLVAGVVTGAVVAAMVRKSSDRNRGSYSQAAVTDQAQSGSVSLTAN 360
QY 361 KV 362
DB 361 KV 362

RESULT 3
US-10-631-467-624
; Sequence 624, Application US/10631467
; Publication No. US20050208496A1
; GENERAL INFORMATION:
; APPLICANT: Genox Research Inc.
; TITLE OF INVENTION: Method for testing for bronchial asthma, or chronic obstructive p
; FILE REFERENCE: 3462.1005-000
; CURRENT APPLICATION NUMBER: US/10/631,467
; PRIOR FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: JP 2003-077212
; PRIOR FILING DATE: 2003-03-20
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; PRIOR APPLICATION NUMBER: JP 2002-229312
; PRIOR FILING DATE: 2002-08-06
; NUMBER OF SEQ ID NOS: 2086
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 624
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-631-467-624
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Query Match      99.7%; Score 1916; DB 5; Length 362;
Best Local Similarity 99.7%; Pred. No. 8.3e-171;
Matches 361; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MAPRSLLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRIYAVEYVDDTQFLRFSD 60
DB 1 MAPRSLLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRIYAVEYVDDTQFLRFSD 60
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DB 61 AAIPRMEPREPWEQEGPQYEWTTGYAKANAQTDRLVALNLLRRYNOSEAGSHTLQGMN 120
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DB 181 LECECLELLRRYLENGLETQADPPKARVAHPISDHEATLRCWALGFYPAEITLTWQR 240
QY 241 DGEETQDTTELVTETRPAGDGTFOKAAVVPVSGEQRVTCHVQHEGLPQPLILRWEQSPQ 300
DB 241 DGEETQDTTELVTETRPAGDGTFOKAAVVPVSGEQRVTCHVQHEGLPQPLILRWEQSPQ 300
QY 301 PTPIPIVGIAGLVAGVVTGAVVAAMVRKSSDRNRGSYSQAAVTDQAQSGSVSLTAN 360
DB 301 PTPIPIVGIAGLVAGVVTGAVVAAMVRKSSDRNRGSYSQAAVTDQAQSGSVSLTAN 360
QY 361 KV 362
DB 361 KV 362
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RESULT 4
US-10-408-765A-1887
; Sequence 1887, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Faby, Boi D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1887
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-1887
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Query Match      95.6%; Score 1838; DB 4; Length 442;
Best Local Similarity 98.0%; Pred. No. 2.3e-163;
Matches 345; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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QY 181 LECECLELLRRYLENGLETLORADPPKAHVAHPISDHEATLRCWALGFYPABITLTWQR 240
Db 181 LECECLELLRRYLENGLETLORADPPKAHVAHPISDHEATLRCWALGFYPABITLTWQR 240
QY 241 DGEEOQTQDELVELVETRPAGDGTFOKWAADVVPSEGEORVYCHVQHEGLPOPLILRWEQSPQ 300
Db 241 DGEEOQTQDELVELVETRPAGDGTFOKWAADVVPSEGEORVYCHVQHEGLPOPLILRWEQSPQ 300
QY 301 PTPIVIGIVAGLVVLGAVVTGAVVAAMVRKSSDRNRGSYQAADVTSQAQ 352
Db 301 PTPIVIGIVAGLVVLGAVVTGAVVAAMVRKSSDRNRGSYQAADVTSQAQ 352

RESULT 5
US-10-450-763-57085
; Sequence 57085, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 57085
; LENGTH: 677
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (587)..(605)
; OTHER INFORMATION: Immunoglobulins and major histocompatibility complex proteins
; OTHER INFORMATION: domain identified by eMATRIX, accession number BL00290B, p-value=
; OTHER INFORMATION: 7.750e-19, raw score of 13.17
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (331)..(509)
; OTHER INFORMATION: Class I Histocompatibility antigen, domains domain identified
; OTHER INFORMATION: by Pfam, accession name MHC_I, E-value=5.8e-132, Pfam score of
; OTHER INFORMATION: 451.8
US-10-450-763-57085
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Query Match 92.4%; Score 1775; DB 5; Length 677;
Best Local Similarity 99.4%; Pred. No. 3.4e-157;
Matches 332; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY 1 MAPRSLLLSGALALTDWAGSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSD 60
Db 310 MAPRSLLLSGALALTDWAGSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSD 369
QY 61 AAPRMEPREPWEQEGPOYEWTTGYAKANAQTDVALNLLRRYNQSEAGSHTLQGMN 120
Db 370 AAPRMEPREPWEQEGPOYEWTTGYAKANAQTDVALNLLRRYNQSEAGSHTLQGMN 429
QY 121 GCDMGPDGRLRLRGYHQHAYDGKDYISLNEDLSWTAADTVQAITQRFYAEAYAEFRY 180
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Db 430 GCDMGPDGRLRLRGYHQHAYDGKDYISLNEDLSWTAADTVQAITQRFYAEAYAEFRY 489
QY 181 LECECLELLRRYLENGLETLORADPPKAHVAHPISDHEATLRCWALGFYPABITLTWQR 240
Db 490 LECECLELLRRYLENGLETLORADPPKAHVAHPISDHEATLRCWALGFYPABITLTWQR 549
QY 241 DGEEOQTQDELVELVETRPAGDGTFOKWAADVVPSEGEORVYCHVQHEGLPOPLILRWEQSPQ 300
Db 550 DGEEOQTQDELVELVETRPAGDGTFOKWAADVVPSEGEORVYCHVQHEGLPOPLILRWEQSPQ 609
QY 301 PTPIVIGIVAGLVVLGAVVTGAVVAAMVRKSS 334
Db 610 PTPIVIGIVAGLVVLGAVVTGAVVAAMVRKSS 643

RESULT 6
US-10-741-600-941
; Sequence 941, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 941
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-741-600-941
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Query Match 80.1%; Score 1539; DB 5; Length 365;
Best Local Similarity 80.1%; Pred. No. 2e-135;
Matches 290; Conservative 26; Mismatches 46; Indels 0; Gaps 0;
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QY 1 MAPRSLLLSGALALTDWAGSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSD 60
Db 4 MAPRTLLLSGALALTDWAGSHSLRYFSTAVSRPGRGEPRIAYEYVDDTQFLRFDSD 63
QY 61 AAPRMEPREPWEQEGPOYEWTTGYAKANAQTDVALNLLRRYNQSEAGSHTLQGMN 120
Db 64 AASQMEPRAPWIEQEGPEYWDQETRVKASQTDVDLGLTRGYNQEAGSHTLQGMN 123
QY 121 GCDMGPDGRLRLRGYHQHAYDGKDYISLNEDLSWTAADTVQAITQRFYAEAYAEFRY 180
Db 124 GCDVSGDGRFLRGYRQADYDGKDYIALNEDLSWTAADMAAQITKRKWEAAHEAQLRAY 183
QY 181 LECECLELLRRYLENGLETLORADPPKAHVAHPISDHEATLRCWALGFYPABITLTWQR 240
Db 184 LDGTCVWLRRLRYLENGKETLQTDPPKTHMTHHPISDHEATLRCWALGFYPABITLTWQR 243
QY 241 DGEEOQTQDELVELVETRPAGDGTFOKWAADVVPSEGEORVYCHVQHEGLPOPLILRWEQSPQ 300
Db 244 DGEEOQTQDELVELVETRPAGDGTFOKWAADVVPSEGEORVYCHVQHEGLPKPLTLRWELSSQ 303
QY 301 PTPIVIGIVAGLVVLGAVVTGAVVAAMVRKSSDRNRGSYQAADVTSQAQSGVSLTAN 360
Db 304 PTPIVIGIAGLVVLGAVVTGAVVAAMVRKSSDRNRKSGVYQAASSDSSQAQSDVSLTAC 363
QY 361 KV 362
Db 364 KV 365
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RESULT 7
US-10-287-436A-179
; Sequence 179, Application US/10287436A
; Publication No. US20050202421A1
; GENERAL INFORMATION:
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```
; APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER
; TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF
; FILE REFERENCE: 10872.514696
; CURRENT APPLICATION NUMBER: US/10/287,436A
; CURRENT FILING DATE: 2002-10-31
; PRIOR APPLICATION NUMBER: US 60/336,220
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 1446
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 179
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-287-436A-179

Query Match 79.0%; Score 1518; DB 5; Length 365;
Best Local Similarity 78.2%; Pred. No. 1.9e-133;
Matches 283; Conservative 31; Mismatches 48; Indels 0; Gaps 0;

Qy 1 MAPRSLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRIYAVEYVDDTQFLRFPSD 60
Db 4 MAPRTLVLSSGALALTDTWAGSHSMRYFYTSVSRPGRGEPRIYAVGVDDTQFVRPDS 63

Qy 61 AAIPRMEPREPWVEQEGPOYWEWTTGYAKANAQTDRLVALRNLRLRYNOSEAGSHTLQGMN 120
Db 64 AASQMEPRAPWIEQEGPEYWDNRNTRNVKAHSQTDRESLRALRYNOSEDSGSHTIQRM 123

Qy 121 GCDMGPDGRLLRGHQYHAYDGYKQYISLNEDLRSWTAADTVQAQITQRFYEAEYAEFFTY 180
Db 124 GCDVGPGRFLRGYQQDAYDGYKQYIALNEDLRSWTAADMAAQITQKQWETAHEAQW 183

Qy 181 LEGECLELLRRLRYLENGLETQADPPKAHVAHPISDHEATLRCWALGFYPAETLTW 240
Db 184 LEGRCVWLRLRYLENGKETLQRTDAPKTHMTHAVSDHEATLRCWALSFYPAETLTW 243

Qy 241 DGEQOTDELVELTRPAGDGTFOKWAAVVVPSEGEQRYTCHVQHEGLPQPLILRWEQSP 300
Db 244 DGEDQOTDELVELTRPAGDGTFOKWAASVVPSGQEQRYTCHVQHEGLPKPLTLRWE 303

Qy 301 PTIPIVGIVAGLVLGAVVTGAVVAANVVRKKSDDNRGYSQAQAVTDSAGSGVSLTAN 360
Db 304 PTIPIVGIAGLVLFAGVIAGVAAVVMRRKSDRKGYSQAASDSDSAGSDMSLTAC 363

Qy 361 KV 362
Db 364 KV 365

RESULT 9
US-10-741-601-325
; Sequence 325, Application US/10741601
; Publication No. US20040166519A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001500
; CURRENT APPLICATION NUMBER: US/10/741,601
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 26415
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 325
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-741-601-325

Query Match 78.5%; Score 1509; DB 4; Length 365;
Best Local Similarity 78.5%; Pred. No. 1.3e-132;
Matches 284; Conservative 26; Mismatches 52; Indels 0; Gaps 0;

Qy 1 MAPRSLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRIYAVEYVDDTQFLRFPSD 60
Db 4 MAPRTLVLSSGALALTDTWAGSHSMRYFYTSVSRPGRGEPRIYAVGVDDTQFVRPDS 63

Qy 61 AAIPRMEPREPWVEQEGPOYWEWTTGYAKANAQTDRLVALRNLRLRYNOSEAGSHTLQGMN 120
Db 64 AASQMEPRAPWIEQEGPEYWDNRNTRNVKAHSQTDRESLRALRYNOSEDSGSHTIQ 123

Qy 121 GCDMGPDGRLLRGHQYHAYDGYKQYISLNEDLRSWTAADTVQAQITQRFYEAEYAEFFTY 180
Db 124 GCDVGPGRFLRGYQQDAYDGYKQYIALNEDLRSWTAADMAAQITQKQWETAHEAQ 183

Qy 181 LEGECLELLRRLRYLENGLETQADPPKAHVAHPISDHEATLRCWALGFYPAETLTW 240
Db 184 LEGRCVWLRLRYLENGKETLQRTDAPKTHMTHAVSDHEATLRCWALSFYPAETLTW 243

Qy 241 DGEQOTDELVELTRPAGDGTFOKWAAVVVPSEGEQRYTCHVQHEGLPQPLILRWEQSP 300
Db 244 DGEDQOTDELVELTRPAGDGTFOKWAASVVPSGQEQRYTCHVQHEGLPKPLTLRWE 303

Qy 301 PTIPIVGIVAGLVLGAVVTGAVVAANVVRKKSDDNRGYSQAQAVTDSAGSGVSLTAN 360
Db 304 PTIPIVGIAGLVLFAGVIAGVAAVVMRRKSDRKGYSQAASDSDSAGSDMSLTAC 363

Qy 361 KV 362
Db 364 KV 365

US-10-287-436A-1268
; Sequence 1268, Application US/10287436A
; Publication No. US20050202421A1
; GENERAL INFORMATION:
; APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER
; TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF
; FILE REFERENCE: 10872.514696
; CURRENT APPLICATION NUMBER: US/10/287,436A
; CURRENT FILING DATE: 2002-10-31
; PRIOR APPLICATION NUMBER: US 60/336,220
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 1446
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1268
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-287-436A-1268

Query Match 79.0%; Score 1518; DB 5; Length 365;
Best Local Similarity 78.2%; Pred. No. 1.9e-133;
Matches 283; Conservative 31; Mismatches 48; Indels 0; Gaps 0;
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Db 124 GCDVSGDRFLRGVYQDYGDKYIALNEDLRSWTAADMAAQITQKWEAAARVAEQLEAY 183
Qy 181 LEGECLELLRYLENGLETLQADPPKARVAHHPISDHEATLRCWALGFYPAEITLTWQR 240
Db 184 LEGICVEWLRYLENGKETLQRTDAPKTHMTHAVSDHEATLRCWALGFYPAEITLTWQR 243
Qy 241 DGEQQTQDTVELVETRPAGDGTQKAAAVVVPSPGEEQRYTCHVQHEGLPQPLILRWESQ 300
Db 244 DGEDQTQDTVELVETRPAGDGTQKAAAVVVPSPGEEQRYTCHVQHEGLPQPLILRWESQ 303
Qy 301 PTPIVGIAGLVVLGAVVTGAVVAAMVRKSSDRNFGSYQAATVDSAGSGVSLTAN 360
Db 304 PTPIVGIAGLVVLGAVVTGAVVAAMVRKSSDRNFGSYQAATVDSAGSGVSLTAC 363
Qy 361 KV 362
Db 364 KV 365

RESULT 13
US-10-631-467-728
; Sequence 728, Application US/10631467
; Publication No. US20050208496A1
; GENERAL INFORMATION:
; APPLICANT: Genox Research Inc.
; TITLE OF INVENTION: Method for testing for bronchial asthma, or chronic obstructive p
; FILE REFERENCE: 3462.1005-000
; CURRENT APPLICATION NUMBER: US/10/631,467
; PRIOR FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: JP 2003-077212
; PRIOR FILING DATE: 2003-03-20
; PRIOR APPLICATION NUMBER: JP 2002-229312
; PRIOR FILING DATE: 2002-08-06
; NUMBER OF SEQ ID NOS: 2086
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 728
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-631-467-728

Query Match 78.5%; Score 1508; DB 5; Length 362;
Best Local Similarity 79.7%; Pred. No. 1.6e-132;
Matches 286; Conservative 26; Mismatches 47; Indels 0; Gaps 0;

Qy 1 MAPSLLLLSGALALDPTWAGSHSLRYFSTAVSRPGRGEPRIYAVEYVDDTQFLRPDS 60
Db 4 MAPRTVLVLLSALALATETWAGSHSMRYFTSVSRPGRGEPRIYAVEYVDDTQFLRPDS 63
Qy 61 AAIPRMEPREPWVQEGPQYWEWTTGYAKANAQTDTRVALRNLRLRRYNOSEAGSHTLQMN 120
Db 64 AASPREEPAPWIEQEGPEYWDNRNTQIYKAQTDRESLRNLRRYNOSEAGSHTLQSMY 123
Qy 121 GCDMGPDGRLRGYHQHAYDGDYISLNEDLRSWTAADTVAQITQRFYEAEYAEFEPTY 180
Db 124 GCDVGPDRLLRGHDQYAYDGDYIALNEDLRSWTAADTAAQITQKWEAAAREAEQRAY 183
Qy 181 LEGECLELLRYLENGLETLQADPPKARVAHHPISDHEATLRCWALGFYPAEITLTWQR 240
Db 184 LEGECVEWLRYLENGKLEADPKTHVTHHPISDHEATLRCWALGFYPAEITLTWQR 243
Qy 241 DGEQQTQDTVELVETRPAGDGTQKAAAVVVPSPGEEQRYTCHVQHEGLPQPLILRWESQ 300
Db 244 DGEDQTQDTVELVETRPAGDGTQKAAAVVVPSPGEEQRYTCHVQHEGLPQPLILRWESQ 303
Qy 301 PTPIVGIAGLVVLGAVVTGAVVAAMVRKSSDRNFGSYQAATVDSAGSGVSLTA 359
Db 304 STPIVGIAGLVAVVIGAVVAAMVCRKSSGKGGSYQAACSDSAGSGVSLTA 362

RESULT 14
US-10-138-888-23
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; Sequence 23, Application US/10138888
; Publication No. US20030148972A1
; GENERAL INFORMATION:
; APPLICANT: Thomas, Winston J.
; Drayna, Dennis T.
; Feder, John N.
; Gnirke, Andreas
; Ruddy, David
; Tsuchihashi, Zenta
; Wolff, Roger K.
; TITLE OF INVENTION: Hereditary Hemochromatosis Gene
; NUMBER OF SEQUENCES: 79
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/138,888
; FILING DATE: 02-May-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/834,497
; FILING DATE: 04-APR-1997
; APPLICATION NUMBER: US 08/652,265
; FILING DATE: 23-MAY-1996
; APPLICATION NUMBER: US 08/632,673
; FILING DATE: 16-APR-1996
; APPLICATION NUMBER: US 08/630,912
; FILING DATE: 04-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Brian M. Poissant
; REGISTRATION NUMBER: 28,462
; REFERENCE/DOCKET NUMBER: 8907-095-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..365
; OTHER INFORMATION: /note= "Human Major Histocompatibility
; Class I (MHC) protein"
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-10-138-888-23

Query Match 77.9%; Score 1497; DB 4; Length 365;
Best Local Similarity 77.9%; Pred. No. 1.7e-131;
Matches 282; Conservative 28; Mismatches 52; Indels 0; Gaps 0;

Qy 1 MAPSLLLLSGALALDPTWAGSHSLRYFSTAVSRPGRGEPRIYAVEYVDDTQFLRPDS 60
Db 4 MAPRTVLVLLSALALATQTWAGSHSMRYFTSVSRPGRGEPRIYAVEYVDDTQFLRPDS 63
Qy 61 AAIPRMEPREPWVQEGPQYWEWTTGYAKANAQTDTRVALRNLRLRRYNOSEAGSHTLQMN 120
Db 64 AASORMEPAPWIEQEGPEYWDGTRKYKASHQTHVLDLGLRGYNOSEAGSHTLQMF 123
Qy 121 GCDMGPDGRLRGYHQHAYDGDYISLNEDLRSWTAADTVAQITQRFYEAEYAEFEPTY 180
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Db 124 GCDVSDWRFLRGYHQYAVDGDYIYALKEDLSWTAADMAAQTTHKWEAAHVABQLRAY 183
Qy 181 LEQECLELLRRYLENGLETLQADPPKAHVAHPISDHEATLRCWALGFYPAEITLTWQR 240
Db 184 LGSTCVWLRRYLENGKELQRTDAPKTEHTHVAHSDHEATLRCWALSFPYPAEITLTWQR 243
Qy 241 DEEQTQDTVELVETRPAGDGTQKWAHVVPVSGEQRCHVQHGELPOPLILRWEQSPQ 300
Db 244 DGEDQDTQDTVELVETRPAGDGTQKWAHVVPVSGEQRCHVQHGELPKPLTLRWEPSQ 303
Qy 301 PPIPIVGI VAGLVGLVAVVGA VAAVMWRKSSDRNRGSYSQAADVTSAGSGVSLTAN 360
Db 304 PPIPIVGI VAGLVGLVAVVGA VAAVMWRKSSDRNRGSYSQAADVTSAGSGVSLTAC 363
Qy 361 KV 362
Db 364 KV 365

RESULT 15

US-10-093-463-78
; Sequence 78, Application US/10093463
; Publication No. US20030208039A1
; GENERAL INFORMATION:
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Shenoy, Suresh
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Gusev, Vladimir
; APPLICANT: Pochart, Pascal
; APPLICANT: Zhong, Mei
; APPLICANT: Rastelli, Luca
; APPLICANT: Mezes, Peter
; APPLICANT: Smithson, Glennnda
; APPLICANT: Guo, Xiaojia
; APPLICANT: Casman, Valerie
; APPLICANT: Boldog, Ferenc
; APPLICANT: Li, Li
; APPLICANT: Zethusen, Bryan
; APPLICANT: Tchernev, Velizar
; APPLICANT: Gangolli, Esha
; APPLICANT: Vernet, Corine
; APPLICANT: Pena, Carol
; APPLICANT: Burgess, Catherine
; APPLICANT: Liu, Xiaohong
; APPLICANT: Spytek, Kimberly
; APPLICANT: Gorman, Linda
; APPLICANT: Spaderna, Steven
; APPLICANT: Voss, Edward
; APPLICANT: Malyankar, Uriel
; APPLICANT: Anderson, David
; APPLICANT: Patturajan, Meera
; APPLICANT: Miller, Charles
; APPLICANT: Taupier, Raymond J. Jr.
; TITLE OF INVENTION: No. US20030208039A1el Antibodies that Bind to Antigenic Polypepti
; TITLE OF INVENTION: Encoding The Antigens, and Methods of Use.
; FILE REFERENCE: 21402-290A (Cura 590AT)
; CURRENT APPLICATION NUMBER: US/10/093,463
; CURRENT FILING DATE: 2002-06-24
; PRIOR APPLICATION NUMBER: 60/283,675
; PRIOR FILING DATE: 2001-04-14
; PRIOR APPLICATION NUMBER: 60/338,092
; PRIOR FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/274,281
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 60/274,101
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 60/325,681
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: 60/304,354
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/279,995
; PRIOR FILING DATE: 2001-03-30

; PRIOR APPLICATION NUMBER: 60/294,899
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/287,424
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/299,027
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/309,198
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: 60/281,194
; PRIOR FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 60/274,194
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 60/274,849
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 60/330,380
; PRIOR FILING DATE: 2001-10-18
; PRIOR APPLICATION NUMBER: 60/275,235
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: 60/288,342
; PRIOR FILING DATE: 2001-05-03
; PRIOR APPLICATION NUMBER: 60/275,578
; PRIOR FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 370
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 78
; LENGTH: 379
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-093-463-78

Query Match 77.9%; Score 1496.5; DB 4; Length 379;
Best Local Similarity 78.0%; Pred. No. 2e-131;
Matches 284; Conservative 28; Mismatches 49; Indels 3; Gaps 1;
Qy 1 MAPRSLLLSGALALDTWAGSHSLRYFSTAVSRPGRGEPRYIAVEYVDDTQFLRFSD 60
Db 4 MAPRSLLLSGALALDTWAGSHSLRYFSTAVSRPGRGEPRYIAVEYVDDTQFLRFSD 63
Qy 61 AAIPRMEPREPWEQEGPOYWEWTTGYAKANAQTDRLVALRLRLRYNOSEA---GSHTLQ 117
Db 64 SACPRMEPRAPWVEQEGPEYWEETRTWKAKAQTDRLVALRLRYNOSEA---GSHTLQ 123
Qy 118 GNGCDMGPDGRLRLRGYHQYAVDGDYIYALKEDLSWTAADMAAQTTHKWEAAHVABQLRAY 177
Db 124 WNIIGCDLGS DGRLLRGYEQYAYDGDYIYALKEDLSWTAADMAAQTTHKWEAAHVABQLRAY 183
Qy 178 RYLEGECELELLRRYLENGLETLQADPPKAHVAHPISDHEATLRCWALGFYPAEITLT 237
Db 184 RAYLEGTCTVWLRRYLENGKELQRTDAPKTEHTHVAHSDHEATLRCWALSFPYPAEITLT 243
Qy 238 WORDGEQDTQDTVELVETRPAGDGTQKWAHVVPVSGEQRCHVQHGELPOPLILRWEQ 297
Db 244 WORDGEQDTQDTVELVETRPAGDGTQKWAHVVPVSGEQRCHVQHGELPOPLILRWEQ 303
Qy 298 SPQPTIPVGI VAGLVGLVAVVGA VAAVMWRKSSDRNRGSYSQAADVTSAGSGVSL 357
Db 304 SSLEPTIPVGI VAGLVGLVAVVGA VAAVMWRKSSDRNRGSYSQAADVTSAGSGVSL 363
Qy 358 TANK 361
Db 364 TACK 367

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OM protein - protein search, using sw model

Run on: April 7, 2006, 12:39:36 ; Search time 21.2221 Seconds
(without alignments)
837.583 Million cell updates/sec

Title: US-09-819-371-6
Perfect score: 1173
Sequence: 1 IAVEYVDDTQFLRFDSDAAI.....QRDGEQTQDTLVELTRPAG 215

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/prodata/1/iaa/6_COMB.pep.*
3: /cgn2_6/prodata/1/iaa/H_COMB.pep.*
4: /cgn2_6/prodata/1/iaa/PCTUS_COMB.pep.*
5: /cgn2_6/prodata/1/iaa/RB_COMB.pep.*
6: /cgn2_6/prodata/1/iaa/backfilea1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1164	99.2	362	2	US-09-949-016-8242
2	940	80.1	274	1	US-08-222-851-1
3	869	74.1	338	2	US-09-949-016-6176
4	869	74.1	339	2	US-09-949-016-8636
5	857	73.1	365	1	US-08-484-905-104
6	857	73.1	365	2	US-08-481-985B-104
7	857	73.1	365	2	US-08-370-476-104
8	856	73.0	365	1	US-08-484-905-100
9	856	73.0	365	2	US-08-481-985B-100
10	856	73.0	365	2	US-08-370-476-100
11	853	72.7	365	1	US-08-484-905-99
12	853	72.7	365	2	US-08-481-985B-99
13	853	72.7	365	2	US-08-370-476-99
14	852	72.6	274	1	US-08-484-905-107
15	852	72.6	274	1	US-08-484-905-108
16	852	72.6	274	2	US-08-481-985B-107
17	852	72.6	274	2	US-08-481-985B-108
18	852	72.6	274	2	US-08-370-476-107
19	852	72.6	274	2	US-08-370-476-108
20	851	72.5	365	1	US-08-484-905-103
21	851	72.5	365	2	US-08-481-985B-103
22	851	72.5	365	2	US-08-370-476-103
23	850	72.5	365	1	US-08-484-905-102
24	850	72.5	365	2	US-08-481-985B-102
25	850	72.5	365	2	US-08-370-476-102
26	849	72.4	365	1	US-08-484-905-97
27	849	72.4	365	1	US-08-484-905-98

28	849	72.4	365	2	US-08-481-985B-97	Sequence 97, Appl
29	849	72.4	365	2	US-08-481-985B-98	Sequence 98, Appl
30	849	72.4	365	2	US-08-652-265-23	Sequence 23, Appl
31	849	72.4	365	2	US-08-834-497A-23	Sequence 23, Appl
32	849	72.4	365	2	US-08-370-476-97	Sequence 97, Appl
33	849	72.4	365	2	US-08-370-476-98	Sequence 98, Appl
34	849	72.4	365	2	US-09-503-444A-23	Sequence 23, Appl
35	848	72.3	274	1	US-08-484-905-105	Sequence 105, App
36	848	72.3	274	2	US-08-481-985B-105	Sequence 105, App
37	848	72.3	274	2	US-08-370-476-105	Sequence 105, App
38	848	72.3	341	2	US-08-890-719-38	Sequence 38, Appl
39	844	72.0	274	1	US-08-484-905-106	Sequence 106, App
40	844	72.0	274	2	US-08-481-985B-106	Sequence 106, App
41	844	72.0	274	2	US-08-370-476-106	Sequence 106, App
42	835	71.2	365	1	US-08-484-905-101	Sequence 101, App
43	835	71.2	365	2	US-08-481-985B-101	Sequence 101, App
44	835	71.2	365	2	US-08-370-476-101	Sequence 101, App
45	809	69.0	361	2	US-08-652-265-22	Sequence 22, Appl

ALIGNMENTS

RESULT 1
US-09-949-016-8242
; Sequence 8242, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8242
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-8242

Query Match 99.2%; Score 1164; DB 2; Length 362;
Best Local Similarity 99.5%; Pred. NO. 1.3e-112;
Matches 214; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1 IAVEYVDDTQFLRFDSDAAI PRMEPRPWPVQEGPQYWEWTGYAKANAQTDVALRNLL 60
DB 44 IAVEYVDDTQFLRFDSDAAI PRMEPRPWPVQEGPQYWEWTGYAKANAQTDVALRNLL 103
QY 61 RRYNOSEAGSHTLQMGNGCDMPDGLRLRGYQHWAGDKYISLNEDLRSWTAADTVAQI 120
DB 104 RRYNOSEAGSHTLQMGNGCDMPDGLRLRGYQHWAGDKYISLNEDLRSWTAADTVAQI 163
QY 121 TORFYAEAYEAEFFTYLEGECLLLRRYLENGKETLQRADPPKARVAHPISDHEATLR 180
DB 164 TORFYAEAYEAEFFTYLEGECLLLRRYLENGKETLQRADPPKARVAHPISDHEATLR 223
QY 181 CWALGFYPAETLTWQRDGEQTQDTLVELTRPAG 215
DB 234 CWALGFYPAETLTWQRDGEQTQDTLVELTRPAG 258
RESULT 2
US-08-222-851-1
; Sequence 1, Application US/08222851
; Patent No. 5723128

GENERAL INFORMATION:
; APPLICANT: CLAYBERGER, CAROL A.
; APPLICANT: KRENSKI, ALAN M.
; APPLICANT: PARHAM, PETER
; TITLE OF INVENTION: CYTOTOXIC T-CELL LYMPHOCYTE ("CTL")
; TITLE OF INVENTION: ACTIVITY REGULATION BY CLASS I MHC PEPTIDES
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 PENNSYLVANIA AVENUE, NW, STE 5500
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1812
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/222,851
; FILING DATE: 05-APR-1994
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: MILLMAN, ROBERT A.
; REGISTRATION NUMBER: 36,217
; REFERENCE/DOCKET NUMBER: 28600-20200.22
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 494-0792
; TELEX: 90-4030 MRSNFOERSWSH
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 274 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-222-851-1

Query Match 80.1%; Score 940; DB 1; Length 274;
Best Local Similarity 80.5%; Pred. No. 1.8e-89;
Matches 173; Conservative 14; Mismatches 28; Indels 0; Gaps 0;

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Qy 1 IAVEYVDDTQFLRFDSDAAI PRMEPRPWEQEGPQYWEWTTGYAKANAQTDRLVALRLL 60
Db 23 IAVGYVDDTQFVRFDSDSACRMEPRAPWVEQEGPEYWDRETQIVKAQSDTDRELDRLR 82
Qy 61 RRYNQSEAGSHTLQMGNGCDMPDGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQI 120
Db 83 GYNGQSEAGSHTIQRMVCGDVGPDGRLLRGYHQYAYDGDYIALNEDLRSWTAADTAAQI 142
Qy 121 TORFYAEABEYAEFRTYLEGECLELLRRYLENGKETLQADPPPKAHVAHHPISDHEATLR 180
Db 143 TQKWEARVAEQRLAYLEGTCEVWLHRYLENGKETLQADPPPKTHVTHHPVDFYEATLR 202
Qy 181 CWALGFYPAEITLTWQDGEQTDTELVELTRPAG 215
Db 203 CWALGFYPAEITLTWQDGEQTDTELVELTRPAG 237
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RESULT 3
US-09-949-016-6176
; Sequence 6176, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6176
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6176

Query Match 74.1%; Score 869; DB 2; Length 338;
Best Local Similarity 74.9%; Pred. No. 5.7e-82;
Matches 161; Conservative 19; Mismatches 35; Indels 0; Gaps 0;
Qy 1 IAVEYVDDTQFLRFDSDAAI PRMEPRPWEQEGPQYWEWTTGYAKANAQTDRLVALRLL 60
Db 47 IAVGYVDDTQFVRFDSDSACRMEPRAPWVEQEGPEYWEETRTNTKAHAQTDRLMLQTLR 106
Qy 61 RRYNQSEAGSHTLQMGNGCDMPDGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQI 120
Db 107 GYNGQSEAGSHTLQMGNGCDLSDGRLLRGYEQYAYDGDYIALNEDLRSWTAADTAAQI 166
Qy 121 TORFYAEABEYAEFRTYLEGECLELLRRYLENGKETLQADPPPKAHVAHHPISDHEATLR 180
Db 167 SKRCKEAAVQRAAYLEGTCEVWLHRYLENGKEMLQADPPKTHVTHHPVDFYEATLR 226
Qy 181 CWALGFYPAEITLTWQDGEQTDTELVELTRPAG 215
Db 227 CWALGFYPAEITLTWQDGEQTDTELVELTRPAG 261

RESULT 4

US-09-949-016-8636
; Sequence 8636, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8636
; LENGTH: 339
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-8636

Query Match 74.1%; Score 869; DB 2; Length 339;
Best Local Similarity 74.9%; Pred. No. 5.7e-82;
Matches 161; Conservative 19; Mismatches 35; Indels 0; Gaps 0;
Qy 1 IAVEYVDDTQFLRFDSDAAI PRMEPRPWEQEGPQYWEWTTGYAKANAQTDRLVALRLL 60
Db 48 IAVGYVDDTQFVRFDSDSACRMEPRAPWVEQEGPEYWEETRTNTKAHAQTDRLMLQTLR 107
Qy 61 RRYNQSEAGSHTLQMGNGCDMPDGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQI 120
Db 108 GYNGQSEAGSHTLQMGNGCDLSDGRLLRGYEQYAYDGDYIALNEDLRSWTAADTAAQI 167
Qy 121 TORFYAEABEYAEFRTYLEGECLELLRRYLENGKETLQADPPPKAHVAHHPISDHEATLR 180
Db 168 SKRCKEAAVQRAAYLEGTCEVWLHRYLENGKEMLQADPPKTHVTHHPVDFYEATLR 227

db 167 TKHKWEAAHVAEOWRAYLEGTCTVWLRRLRYLENGKETLORTDAPKTHMTHAVSDHEATLR 226

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181 CUALPFIAPBILINWQDGEQDTDELVELTRPAG 213
DB      227 CWALSFYPAETLTWQRDGEDQTDTLVELTRPAG 261

RESULT 8
US-08-484-905-100
; Sequence 100, Application US/08484905
; Patent No. 5976551
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: An Altered Major Histocompatibility
; TITLE OF INVENTION: Complex(MHC) Determinant and Methods for Using the
; TITLE OF INVENTION: Determinant
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; OPERATING SYSTEM: IBM PC compatible
; OPERATING SYSTEM: PC-DOS-/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,905
; FILING DATE: 07-JUNE-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 03495.0106-03000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 100:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-905-100

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	Query Match	73.0%; Score 856; DB 1; Length 365;
	Best Local Similarity	73.5%; Pred. No. 1.4e-80;
	Matches 158; Conservative	18; Mismatches 39; Indels 0; Gaps 0
QY	1 IAVEYVDDTQFLRFDSDAAIPMEPREPFWEQEGPOVWEWTTGYAKANAQATQRVALRNLL	60
	: : : :	
Db	47 IAVGVDDTQFVRDSDAASQRMPEPRAPWTIEQGSPFYWDGETKVKVAHQTHRVDLSTLR	106
	: : : :	
QY	61 RRYNQSEAGSHTLQMGNCMDGPDRLRLRGYHGWMDGDKYIISINEDLSRWSTAADTAQVI	120
	: : : :	
Db	107 GYNGQSEAGSHTVQMFGCDVGSDGRFLRGYHVAYVDGKDYLALKEDSLRSWAADMAAQIT	166
	: : : :	
QY	121 TORFYREBEYAEPRTYLEGECELLARYLENKETLQRADPPKAHVAAHPHPSDEHAETUR	180
	: : : :	
Db	167 TKHKWEAAHVAEOLRAYLEGTCEWLRYRYLENGKETLQRTDAPKPTHTMTHVASDHEATLR	226
	: : : :	

QY 191 CWALGFYPAEITLTWQDGEQOTDELVELTRPAG 215
|||||
Db 227 CWALGFYPAEITLTWQDGEQOTDELVELTRPAG 261
|||||

RESULT 9
US-08-481-985B-100
; Sequence 100, Application US/08481985B
; Patent No. 6011146
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; APPLICANT: Lone, Yu-Chun
; APPLICANT: Ofcius, David
; APPLICANT: Casrouge, Armanda
; TITLE OF INVENTION: Altered Major Histocompatibility Complex
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/481.985B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801.818
; FILING DATE: 05-DEC-1991
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792.473
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 03495.0106-04000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 100:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-481-985B-100

Query Match 73.0%; Score 856; DB 2; Length 365;
Best Local Similarity 73.5%; Pred. No. 1.4e-80;
Matches 158; Conservative 18; Mismatches 39; Indels 0; Gaps 0;

QY 1 IAVGVDDTQFLRFDSDAAIPRMEPRPWEQSGPOYEWTTGYAKANAQTDRLVALRNL 60
Db 47 IAVGVDDTQVRFDSDAASQRMEPRAPWIEQEGPEYWDGSTRKVKASHQTHRVLDSTLR 106
QY 61 RRYNQSEAGSHTLQGMNGCDMPDGRLLRGYHQAWDGKDYISLNEDLSRWTAADTVAQI 120
Db 107 GYNNQSEAGSHTVQRMFGCDVSGDGRFLRGYHQAWDGKDYIALKEDLSRWTAADMAQT 166
QY 121 TORFYAEAEYAEFRPTYLEGCELELLRRLYENGKETLQADPPKHAHVHPIPSDHEATLR 180
Db 167 TKHWEAAHVAEQRLAYLEGTCVLEWLRRLYENGKETLQRTDAPKTHMTHAVSDHEATLR 226
QY 181 CWALGFYPAEITLTWQDGEQOTDELVELTRPAG 215
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Db 227 CWALGFYPAEITLTWQDGEQOTDELVELTRPAG 261
|||||

RESULT 10
US-08-370-476-100
; Sequence 100, Application US/08370476
; Patent No. 6153408
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; APPLICANT: Lone, Yu-Chun
; APPLICANT: Ofcius, David
; APPLICANT: Casrouge, Armanda
; TITLE OF INVENTION: Altered Major Histocompatibility Complex
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/370.476
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/117.575
; FILING DATE: 07-SEP-1993
; APPLICATION NUMBER: US 08/072.787
; FILING DATE: 06-JUN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801.818
; FILING DATE: 05-DEC-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792.473
; FILING DATE: 15-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 05243.0001-01000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 100:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-370-476-100

Query Match 73.0%; Score 856; DB 2; Length 365;
Best Local Similarity 73.5%; Pred. No. 1.4e-80;
Matches 158; Conservative 18; Mismatches 39; Indels 0; Gaps 0;

QY 1 IAVGVDDTQFLRFDSDAAIPRMEPRPWEQSGPOYEWTTGYAKANAQTDRLVALRNL 60
Db 47 IAVGVDDTQVRFDSDAASQRMEPRAPWIEQEGPEYWDGSTRKVKASHQTHRVLDSTLR 106
QY 61 RRYNQSEAGSHTLQGMNGCDMPDGRLLRGYHQAWDGKDYISLNEDLSRWTAADTVAQI 120
Db 107 GYNNQSEAGSHTVQRMFGCDVSGDGRFLRGYHQAWDGKDYIALKEDLSRWTAADMAQT 166
QY 121 TORFYAEAEYAEFRPTYLEGCELELLRRLYENGKETLQADPPKHAHVHPIPSDHEATLR 180
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Db      167 TKHWEAARVAEQRAYLEGTCVWELRYLENGKETLQRTDAPKTHMTHAVSDHEATLR 226
QY      181 CWALGFYPAETTLTWQRDGEQOTQDTVELVETRPAG 215
Db      227 CWALSFYPAETTLTWQRDGEQOTQDTVELVETRPAG 261

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RESULT 11
US-08-484-905-99
; Sequence 99, Application US/08484905
; Patent No. 5976551
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: An Altered Major Histocompatibility
; TITLE OF INVENTION: Complex(MHC) Determinant and Methods for Using the
; TITLE OF INVENTION: Determinant
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,905
; FILING DATE: 07-JUNE-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 03495.0106-03000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 99:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-905-99

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Query Match      72.7%; Score 853; DB 1; Length 365;
Best Local Similarity 73.0%; Pred. No. 2.9e-80;
Matches 157; Conservative 19; Mismatches 39; Indels 0; Gaps 0;

QY      1 IAVEVDDTQFLRFDSDAAIPRMEPRPWPVQEGPQYWEWTTGYAKANAQTDRLVALRNL 60
Db      47 IAVGVDDTQVRFDSDAASQRMPEPAPWISQEGPEYWDGETRKYKAHSQTHRVLDLTLR 106
QY      61 RRYNQSEAGSHTLQGMNGCDMGPGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQI 120
Db      107 GYINQSEAGSHTVQRMVYCDVSGDGRFLRGYHQYAYDKDYIALKEDLRSWTAADMAAQT 166
QY      121 TORFYAEYAEFFTYLEGECLLRRLRYLENGKETLQRTDAPPKAHVAHPHISDHEATLR 180

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Db      167 TKHKWETAHEAQWRAYLEGTCVWELRYLENGKETLQRTDAPKTHMTHAVSDHEATLR 226
QY      181 CWALGFYPAETTLTWQRDGEQOTQDTVELVETRPAG 215
Db      227 CWALSFYPAETTLTWQRDGEQOTQDTVELVETRPAG 261

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RESULT 12
US-08-481-985B-99
; Sequence 99, Application US/08481985B
; Patent No. 6011146
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: Altered Major Histocompatibility Complex
; TITLE OF INVENTION:
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/481,985B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 03495.0106-04000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 99:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-481-985B-99

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Query Match      72.7%; Score 853; DB 2; Length 365;
Best Local Similarity 73.0%; Pred. No. 2.9e-80;
Matches 157; Conservative 19; Mismatches 39; Indels 0; Gaps 0;

QY      1 IAVEVDDTQFLRFDSDAAIPRMEPRPWPVQEGPQYWEWTTGYAKANAQTDRLVALRNL 60
Db      47 IAVGVDDTQVRFDSDAASQRMPEPAPWISQEGPEYWDGETRKYKAHSQTHRVLDLTLR 106
QY      61 RRYNQSEAGSHTLQGMNGCDMGPGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQI 120
Db      107 GYINQSEAGSHTVQRMVYCDVSGDGRFLRGYHQYAYDKDYIALKEDLRSWTAADMAAQT 166
QY      121 TORFYAEYAEFFTYLEGECLLRRLRYLENGKETLQRTDAPPKAHVAHPHISDHEATLR 180
Db      167 TKHKWETAHEAQWRAYLEGTCVWELRYLENGKETLQRTDAPKTHMTHAVSDHEATLR 226

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Db      143 TKHWEAAHVAEQWRAYLEGTCVWELRRYLENGKETLQRTDAPKTHMTHHAVSDHEATLR 202
Qy      181 CWALGFYPAEITLTLTWORDEGSEOTQDTDELVETRPAG 215
Db      203 CWALSFYPAEITLTLTWORDEGSDQTDDELVETRPAG 237

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RESULT 15

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US-08-484-905-108
; Sequence 108, Application US/08484905
; Patent No. 5976551
; GENERAL INFORMATION:

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; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: An Altered Major Histocompatibility
; TITLE OF INVENTION: Complex(MHC) Determinant and Methods for Using the
; TITLE OF INVENTION: Determinant
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS-/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25

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; CURRENT APPLICATION DATA: US/08/484,905
; FILING DATE: 07-JUNE-1995
; CLASSIFICATION: 530

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991

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; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991

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; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 03495.0106-03000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400

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; INFORMATION FOR SEQ ID NO: 108:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 274 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-905-108

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Query Match      72.6%; Score 852; DB 1; Length 274;
Best Local Similarity 73.5%; Pred. No. 2.5e-80;
Matches 158; Conservative 18; Mismatches 39; Indels 0; Gaps 0;

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Qy      1 IAVFVDDTQFLRFDSDAAIRMEPREPWVGEQGYHWTGYAKANAQTRVALRNLL 60
Db      23 IAVGVDDTQVRFDSDAASRAEMPEAPWIEQGEPEYWDGETRNVKAHSQTHRVLDLTLR 82
Qy      61 RRYNQSEAGSHTLQGMNCGMDPGDGLLRGQYHAWDGKDYISLNEDLRSWTAADTVAQI 120
Db      83 GYVQSEAGSHTLQRMVCDVGSDFLRGQYHAYDGDYALKEDLRSWTAADMAAQT 142
Qy      121 TORFYAEYAEFEFTYLEGECLELLRRYLENGKETLQRTDAPKTHMTHHAVSDHEATLR 180

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Db      143 TKHWEAAHVAEQWRAYLEGTCVWELRRYLENGKETLQRTDAPKTHMTHHAVSDHEATLR 202
Qy      181 CWALGFYPAEITLTLTWORDEGSEOTQDTDELVETRPAG 215
Db      203 CWALSFYPAEITLTLTWORDEGSDQTDDELVETRPAG 237

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Search completed: April 7, 2006, 12:41:55
Job time : 21.2221 secs

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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: April 7, 2006, 13:01:26 ; Search time 9.85311 Seconds
(without alignments)
680.625 Million cell updates/sec

Title: US-09-819-371-6

Perfect score: 1173

Sequence: 1 IAVEYVDDTQFLRPSDAAI.....ORDGEQDTFELVETRPAG 215

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 184161 seqs, 3119182 residues

Total number of hits satisfying chosen parameters: 184161

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA New:*

- 1: /SIDSS/prodata1/pubpaa/US08_NEW_PUB.pep.*
- 2: /SIDSS/prodata1/pubpaa/US06_NEW_PUB.pep.*
- 3: /SIDSS/prodata1/pubpaa/US07_NEW_PUB.pep.*
- 4: /SIDSS/prodata1/pubpaa/PCT_NEW_PUB.pep.*
- 5: /SIDSS/prodata1/pubpaa/US09_NEW_PUB.pep.*
- 6: /SIDSS/prodata1/pubpaa/US10_NEW_PUB.pep.*
- 7: /SIDSS/prodata1/pubpaa/US11_NEW_PUB.pep.*
- 8: /SIDSS/prodata1/pubpaa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	869	74.1	338	US-10-821-234-1565	Sequence 1565, Ap
2	852	72.6	530	US-10-995-805-4	Sequence 4, Appli
3	845	72.0	365	US-10-821-234-1575	Sequence 1575, Ap
4	791	67.4	358	US-10-821-234-1563	Sequence 1563, Ap
5	755	64.4	575	US-10-995-805-2	Sequence 2, Appli
6	624	53.2	284	US-11-072-512-3648	Sequence 3648, Ap
7	466	39.7	209	US-11-072-512-1978	Sequence 1978, Ap
8	330.5	28.2	295	US-11-177-506-52	Sequence 52, Appli
9	285.5	24.3	280	US-10-995-561-655	Sequence 655, App
10	285.5	24.3	348	US-10-995-561-649	Sequence 649, App
11	285.5	24.3	348	US-11-252-452-2	Sequence 2, Appli
12	282.5	24.1	325	US-10-995-561-652	Sequence 652, App
13	248.5	21.2	334	US-10-995-561-658	Sequence 658, App
14	227	19.4	150	US-11-072-512-3304	Sequence 3304, App
15	223.5	19.1	260	US-10-995-561-651	Sequence 651, App
16	195.5	16.7	365	US-10-521-053-4	Sequence 4, Appli
17	186.5	15.9	246	US-10-995-561-657	Sequence 657, App
18	139	11.8	333	US-11-181-234-5	Sequence 5, Appli
19	139	11.8	333	US-11-181-234-7	Sequence 7, Appli
20	137.5	11.7	327	US-11-181-234-3	Sequence 3, Appli
21	131.5	11.2	256	US-10-995-561-654	Sequence 654, App
22	124.5	10.6	161	US-10-995-561-653	Sequence 653, App
23	107	9.1	179	US-10-884-730-84	Sequence 84, Appli
24	106.5	9.1	242	US-10-995-561-648	Sequence 648, App
25	105	9.0	266	US-10-884-730-85	Sequence 85, Appli

ALIGNMENTS

RESULT 1

US-10-821-234-1565
; Sequence 1565, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821.234
; PRIOR FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pc_seq_genes Version 1.0
; SEQ ID NO 1565
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1565

Query Match 74.1%; Score 869; DB 6; Length 338;
Best Local Similarity 74.9%; Pred. No. 2.4e-69;
Matches 161; Conservative 19; Mismatches 35; Indels 0; Gaps 0;

QY	1	IAVEYVDDTQFLRPSDAAI	PRMESPWPVVEQEGPOYWEWTTGYAKANAQTRVALRNLL	60
DB	47	IAMGYVDDTQVRFSDSAC	PRMFPAPWVEQEGPEWEEETRTKAAHAQTRMNLQTLR	106
QY	61	RRYNQSEAGSHTLQMGNC	MDGPDGLRLRGYHAWDGKDYISLNEDLRSWTAADTVAQI	120
DB	107	GYYNQSEASHTLQMWIG	CDLGSDDLRLRGYEQYAYDGDYALNEDLRSWTAADTAAQI	166
QY	121	TQRYFAEYAEVAFPTYLE	GECLRLRYLNGKETLQADPPPKAHVAHPISDHEATLR	180
DB	167	SKRCEANVAEQRRAYLEG	TCVEWHLRYLNGKEMQLQADPPKTHVTHFPDYEATLR	226
QY	181	CWALGFYPAETTLTWQD	GEQDTFELVETRPAG 215	
DB	227	CWALGFYPAETTLTWQD	GEQDTFELVETRPAG 261	

RESULT 2

US-10-995-805-4
; Sequence 4, Application US/10995805
; Publication No. US20050287631A1

```
; GENERAL INFORMATION:
; APPLICANT: KROENKE, MARTIN
; APPLICANT: ZAVAZAVA, NICHOLAS
; TITLE OF INVENTION: COMPOSITIONS AND METHODS RELATED TO A DIMERIC MHC CLASS
; FILE REFERENCE: I AND II-LIKE MOLECULE (dsMHC I AND dsMHC II)
; CURRENT APPLICATION NUMBER: US/10/995,805
; PRIOR FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: 60/524,988
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 530
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-805-4

Query Match      72.6%; Score 852; DB 6; Length 530;
Best Local Similarity 73.5%; Pred. No. 1.2e-67;
Matches 158; Conservative 20; Mismatches 37; Indels 0; Gaps 0;

Qy 1 IAVEYVDDTQFLRFDSDAAIPRMEPREPWVQEGPQYWEWTTGYAKANAQTDRLVALRNL 60
Db 47 IAVGVDDSDQVFQFSDSDAASQRMPEAPWIEQEEPEYWDDETRNVKAHSQTRNANLGT 106
Qy 61 RRYNQSEAGSHTLQMGNGCDMPDGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQ 120
Db 107 GYTNQSEAGSHTIQIMYCGVSDGRFLRGYRQDAYDKGYIALNEDLRSWTAADMAAQ 166
Qy 121 TORFYAEABEYAEFRITYLEGECLELLRRYLENGKETLQORADPPKAHVAHPISDHEAT 180
Db 167 TKRWEAARAEQRAVLEGVCVGLRRLYLENGKETLQRTDAPKTHMTHHVAHVSDEAT 226
Qy 181 CWAIGFYPAEITLTWQRDGEQTQDTVELVETRPAG 215
Db 227 CWALSFPYPAEITLTWQRDGEQTQDTVELVETRPAG 261

Query Match      72.0%; Score 845; DB 6; Length 365;
Best Local Similarity 73.0%; Pred. No. 3.4e-67;
Matches 157; Conservative 18; Mismatches 40; Indels 0; Gaps 0;

Qy 1 IAVEYVDDTQFLRFDSDAAIPRMEPREPWVQEGPQYWEWTTGYAKANAQTDRLVALRNL 60
Db 47 IAVGVDDTQFLRFDSDAASQRMPEAPWIEQEEPEYWDGTRKVAHSQTRVDLGT 106
Qy 61 RRYNQSEAGSHTLQMGNGCDMPDGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQ 120
Db 107 GYTNQSEAGSHTVQRMVYCGVSDWRFLRGYHAYDKGYIALKEDLRSWTAADMAAQ 166
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Qy 121 TORFYAEABEYAEFRITYLEGECLELLRRYLENGKETLQORADPPKAHVAHPISDHEAT 180
Db 167 TKRWEAARAEQRAVLEGVCVGLRRLYLENGKETLQRTDAPKTHMTHHVAHVSDEAT 226
Qy 181 CWAIGFYPAEITLTWQRDGEQTQDTVELVETRPAG 215
Db 227 CWALSFPYPAEITLTWQRDGEQTQDTVELVETRPAG 261

RESULT 4
US-10-821-234-1563
; Sequence 1563, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; PRIOR FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 1563
; LENGTH: 358
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1563

Query Match      67.4%; Score 791; DB 6; Length 358;
Best Local Similarity 68.8%; Pred. No. 1.9e-62;
Matches 148; Conservative 20; Mismatches 47; Indels 0; Gaps 0;

Qy 1 IAVEYVDDTQFLRFDSDAAIPRMEPREPWVQEGPQYWEWTTGYAKANAQTDRLVALRNL 60
Db 44 ISVGVDVDTQVRFNDNDAASPRMVPFAPMWEQEGSEYWDRETRSGARDTAAQIFRVNLT 103
Qy 61 RRYNQSEAGSHTLQMGNGCDMPDGRLLRGYHQHAWDGKDYISLNEDLRSWTAADTVAQ 120
Db 104 GYTNQSEAGSHTLQMGNGCELGPDRFLRGYEQPAYDKGYLTNEDLRSWTAADTAAQ 163
Qy 121 TORFYAEABEYAEFRITYLEGECLELLRRYLENGKETLQORADPPKAHVAHPISDHEAT 180
Db 164 SEQNSNDASAEHQRAVLEDTCEVWLHKYLEKGETLLHLLEPPKTHVTHHPISDHEAT 223
Qy 181 CWAIGFYPAEITLTWQRDGEQTQDTVELVETRPAG 215
Db 224 CWAIGFYPAEITLTWQRDGEQTQDTVELVETRPAG 258

RESULT 5
US-10-995-805-2
; Sequence 2, Application US/10995805
; Publication No. US20050287631A1
; GENERAL INFORMATION:
; APPLICANT: KROENKE, MARTIN
; APPLICANT: ZAVAZAVA, NICHOLAS
; TITLE OF INVENTION: COMPOSITIONS AND METHODS RELATED TO A DIMERIC MHC CLASS
; FILE REFERENCE: I AND II-LIKE MOLECULE (dsMHC I AND dsMHC II)
; CURRENT APPLICATION NUMBER: US/10/995,805
; PRIOR FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: 60/524,988
; PRIOR FILING DATE: 2003-11-25
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 2
; LENGTH: 575
; TYPE: PRT
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; ORGANISM: RAT
US-10-995-805-2

Query Match      64.4%; Score 755; DB 6; Length 575;
Best Local Similarity 65.6%; Pred. No. 5e-59;
Matches 141; Conservative 25; Mismatches 49; Indels 0; Gaps 0;

Qy 1 IAVEYVDDTQFLRPDSDAAI PRMEPRSPWVEQEGFYWEWTTGYAKANAQTD RVALRNLL 60
Db 47 ISGVVDHTFEVFPDSDAENPRYEPAPWMEREGPDYWERETQAKGNEQNYRVS LNR 106
Qy 61 RRYNQSEAGSHTLQGMGCDMPDGRLLRGVYHOHAWDGKDYISLNEDLRSWTAADTV AQI 120
Db 107 GYYNQSEGGSHTIQRMYGCDVGTGSLRGYRQDAYDGRDYALNEDLKWTWADPAAQI 166
Qy 121 TQRFYAEAEYAESEPTTYLEGECELLRRYLLENGKETIQRADPPPKAHVAHHPI S DHEATLR 180
Db 167 TRNKWDRAQVAERLARYLEGTCVEMRLYLEHGETILLRLDPPKAAHTYLHPRPEGDVTLR 226
Qy 181 CWALGFYPAISITLTWQRDGBEQTDLTBLVETRPAG 215
Db 227 CWALGFYPAISITLSWQLNGEDLTODMELVETRPAG 261

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RESULT 6
US-11-072-512-3648
; Sequence 3648, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YUKI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOKYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cdNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3648
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3648

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Db	121	NVABQRRAYLEGTCVWEVHLRYLENGKEMQLRADPPKTHVTHHPVDYEAATLRCAWALGFYP	180
Qy	189	AEITLTWQRDGEQTQDTDELVEYTRPAG	215
Db	181	AEITLTWQRDGEDTQDVELVEYTRPAG	207
<p>RESULT 7</p> <p>US-11-072-512-1978</p> <p>; Sequence 1978, Application US/11072512</p> <p>; Publication No. US20060029945A1</p> <p>; GENERAL INFORMATION:</p> <p>; APPLICANT: ISOGAI, TAKAO</p> <p>; APPLICANT: SUGIYAMA, TOMOYASU</p> <p>; APPLICANT: OTSUKI, TETSUJI</p> <p>; APPLICANT: WAKAMATSU, AI</p> <p>; APPLICANT: SATO, HIROYUKI</p> <p>; APPLICANT: ISHII, SHIZUKO</p> <p>; APPLICANT: YAMAMOTO, JUN-ICHI</p> <p>; APPLICANT: ISONO, YUUKO</p> <p>; APPLICANT: HIO, YURI</p> <p>; APPLICANT: OTSUKA, KAORU</p> <p>; APPLICANT: NAGAI, KEIICHI</p> <p>; APPLICANT: IRIE, RYOTARO</p> <p>; APPLICANT: TAMECHIKA, ICHIRO</p> <p>; APPLICANT: SEKI, NAOHICO</p> <p>; APPLICANT: YOSHIKAWA, TSUTOMU</p> <p>; APPLICANT: OTSUKA, MOTOKUKI</p> <p>; APPLICANT: NAGAHARI, KENJI</p> <p>; APPLICANT: MASUHO, YASUHIKO</p> <p>; TITLE OF INVENTION: Novel full length cdna</p> <p>; FILE REFERENCE: 084335-0191</p> <p>; CURRENT APPLICATION NUMBER: US/11/072,512</p> <p>; PRIOR FILING DATE: 2005-03-07</p> <p>; PRIOR APPLICATION NUMBER: US 60/350,978</p> <p>; PRIOR FILING DATE: 2002-01-25</p> <p>; PRIOR APPLICATION NUMBER: JP 2001-379298</p> <p>; PRIOR FILING DATE: 2001-11-05</p> <p>; NUMBER OF SEQ ID NOS: 4096</p> <p>; SOFTWARE: PatentIn Ver. 2.1</p> <p>; SEQ ID NO 1978</p> <p>; LENGTH: 209</p> <p>; TYPE: PRT</p> <p>; ORGANISM: Homo sapiens</p> <p>US-11-072-512-1978</p>			
<p>Query Match 39.7%; Score 466; DB 7; Length 209;</p> <p>Best Local Similarity 68.7%; Pred. No. 4.8e-34;</p> <p>Matches 90; Conservative 14; Mismatches 27; Indels 0; Gaps 0</p>			
Qy	30	VEQEGPYWWTTCYAKANAQTDRAVALNLLRRYNQSEAGSHTLOGMNGCDMGPDGRLLR	89
Db	1	MEREQEPYWRNTQICKAQAARTENLRALRYYNQSEGGSHTMVMYGCVDGPDGRLFC	60
Qy	90	GYHQHAWDGKDYISLNDLRSAADTVAQITQRFYBAEYVAEERFRTYLEGECLELLRRY	149
Db	61	GYHQHAYDGKDYIALNEDLSRWAADMAAQITKKRWEAARBAQRVYLEGFVWLRRY	120
Qy	150	LENGKETLORA	160
Db	121	LENGKETLORA	131

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RESULT 8
US-11-177-506-52
; Sequence 52, Application US/11177506
; Publication No. US20060029956A1
; GENERAL INFORMATION:
; APPLICANT: Beyer, Wayne F.
; APPLICANT: Venetta, Thomas M.
; APPLICANT: Groelke, John W.
; APPLICANT: Blaesus, Rainer H.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE

```


Qy 61 RRYNOSEAGSHITLQMGNGCDMPDGLRLRGYHQHAWDGKDYISLNEDLSWTAADTVAQI 120
Db 107 ENHNHKSKE-SHTLQVILGCEMOEDNS-TEGYWKYGYDQDHLFCFDPDITLDWRAAPRAWP 164
Qy 121 TORFYEAEBY-ABEPTTYLGECELELLRRYLENGKETLQADPPKRAHVAHHFISDHEATL 179
Db 165 TKLEWERHKIRARQNRAYLERDCPAQLQQLLELGRGVLDQVPPPLVKVTHH-VTSSVTTL 223
Qy 180 RCWALGFYPABITLTWQRDGBEQDTDELVEVTR 212
Db 224 RCALNYYPNITMKWLKD--KQPMDAKEFEPEK 254

RESULT 12

US-10-995-561-652
; Sequence 652, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 652
; LENGTH: 325
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-652

Query Match 24.1%; Score 282.5; DB 6; Length 325;
Best Local Similarity 33.8%; Pred. No. 1.2e-17;
Matches 71; Conservative 36; Mismatches 94; Indels 9; Gaps 7;
Qy 5 YVDDTQFLRFDSDAAIPRMEPREPVEOE-GPYWEWTTGYAKANAQTRVALRNLRLRY 63
Db 29 YVDDQLFVFDHESR--RVEPRTPWSSRISQWMLQSLKQWDMFTVDFWTFIMENH 86
Qy 64 NOSEAGSHITLQMGNGCDMPDGLRLRGYHQHAWDGKDYISLNEDLSWTAADTVAQIQR 123
Db 87 NKSKE-SHTLQVILGCEMOEDNS-TEGYWKYGYDQDHLFCFDPDITLDWRAAPRAWPTKL 144
Qy 124 FYEAEBY-ABEPTTYLGECELELLRRYLENGKETLQADPPKRAHVAHHFISDHEATLRCW 182
Db 145 EWERHKIRARQNRAYLERDCPAQLQQLLELGRGVLDQVPPPLVKVTHH-VTSSVTTLRCR 203
Qy 183 ALGFYPABITLTWQRDGBEQDTDELVEVTR 212
Db 204 ALNYYPNITMKWLKD--KQPMDAKEFEPEK 231

RESULT 13

US-10-995-561-658
; Sequence 658, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 658
; LENGTH: 334
; TYPE: PRT
; ORGANISM: Homo sapiens

US-10-995-561-658

Query Match 21.2%; Score 248.5; DB 6; Length 334;
Best Local Similarity 31.5%; Pred. No. 1.3e-14;
Matches 67; Conservative 35; Mismatches 88; Indels 23; Gaps 7;
Qy 2 AVEYVDDTQFLRFDSDAAIPRMEPREPVEOE-GPYWEWTTGYAKANAQTRVALRNLRL 60
Db 49 ALGYVDDQLFVFDHESR--RVEPRTPWSSRISQWMLQSLKQWDMFTVDFWTFIM 106
Qy 61 RRYNOSEAGSHITLQMGNGCDMPDGLRLRGYHQHAWDGKDYISLNEDLSWTAADTVAQI 120
Db 107 ENHNHKSKE-SHTLQVILGCEMOEDNS-TEGYWKYGYDQDHLFCFDPDITLDWRAAPRAWP 164
Qy 121 TORFYEAEBY-ABEPTTYLGECELELLRRYLENGKETLQADPPKRAHVAHHFISDHEATL 179
Db 165 TKLEWERHKIRARQNRAYLERDCPAQLQQLLELGRGVLDQ-----QVTTL 209
Qy 180 RCWALGFYPABITLTWQRDGBEQDTDELVEVTR 212
Db 210 RCALNYYPNITMKWLKD--KQPMDAKEFEPEK 240

RESULT 14

US-11-072-512-3304
; Sequence 3304, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3304
; LENGTH: 150
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3304

Query Match 19.4%; Score 227; DB 7; Length 150;
Best Local Similarity 83.0%; Pred. No. 4e-13;
Matches 39; Conservative 5; Mismatches 3; Indels 0; Gaps 0;
Qy 169 HHPISDHEATLRCWALGFYPABITLTWQRDGBEQDTDELVEVTRPAG 215
Db 3 HHSVSDYKATLRCWALGFYPABITLTWQRDGBEQDTDELVEVTRPAG 49

RESULT 15

US-10-995-561-651

```
; Sequence 651, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 651
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-651

Query Match      19.1%; Score 223.5; DB 6; Length 260;
Best Local Similarity 36.1%; Pred. No. 1.5e-12;
Matches 52; Conservative 26; Mismatches 61; Indels 5; Gaps 4;

Qy      70 SHTLQGMNGCDMGPPGRLRLRGYHQHAWDGKDYISLNEDLRSWTAADTVQAQITQRFYEAE 129
Db      27 SHTLQVILGCEMQEDNS-TEGYWKYGYDQDHLFCFDPDLDWRAAEPRAWPTKLEWERHK 85

Qy      130 Y-ABEFRTYLEGECLLELLRRYLENGKETLQRAADPPKAHVAAHPISDHEATLRCHWALGEYP 188
Db      86 IRARQNRAYLERDCDPAQLQQLLELGRGVLDQQVPLVKVTHH-VTSSVTTLRCRALNYYP 144

Qy      189 AEITLTWORGEEQTDTELVEVR 212
Db      145 QNITMKWLKD--KQPMDAKEFEPK 166
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Search completed: April 7, 2006, 13:06:43
Job time : 10.8531 secs

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OM protein - protein search, using sw model

Run on: April 7, 2006, 13:01:26 ; Search time 16.5899 Seconds
(without alignments)
680.625 Million cell updates/sec

Title: US-09-819-371-4
Perfect score: 1922
Sequence: 1 MAPRSLLLSGALALTDTW.....QAAVTDQAQSGSVLTANKV 362

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 184161 seqs, 3119182 residues

Total number of hits satisfying chosen parameters: 184161

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:
1: /SIDSS/ptodata/1/pubpaa/US08_NEW_PUB.pdb:
2: /SIDSS/ptodata/1/pubpaa/US06_NEW_PUB.pdb:
3: /SIDSS/ptodata/1/pubpaa/US07_NEW_PUB.pdb:
4: /SIDSS/ptodata/1/pubpaa/PCT_NEW_PUB.pdb:
5: /SIDSS/ptodata/1/pubpaa/US09_NEW_PUB.pdb:
6: /SIDSS/ptodata/1/pubpaa/US10_NEW_PUB.pdb:
7: /SIDSS/ptodata/1/pubpaa/US11_NEW_PUB.pdb:
8: /SIDSS/ptodata/1/pubpaa/US60_NEW_PUB.pdb:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1493	77.7	365	US-10-821-234-1575	Sequence 1575, Ap
2	1424	74.1	338	US-10-821-234-1565	Sequence 1565, Ap
3	1350	70.2	358	US-10-821-234-1563	Sequence 1563, Ap
4	1239.5	64.5	530	US-10-995-805-4	Sequence 4, Appli
5	1126.5	58.6	575	US-10-995-805-2	Sequence 2, Appli
6	985	51.2	284	US-11-072-512-3648	Sequence 3648, Ap
7	625.5	32.5	150	US-11-072-512-3304	Sequence 3304, Ap
8	519.5	27.0	348	US-10-995-561-649	Sequence 649, App
9	519.5	27.0	348	US-11-252-452-2	Sequence 2, Appli
10	485	25.2	325	US-10-995-561-652	Sequence 652, App
11	482.5	25.1	334	US-10-995-561-658	Sequence 658, App
12	481.5	25.1	295	US-11-177-506-52	Sequence 52, Appli
13	470.5	24.5	209	US-11-072-512-1978	Sequence 1978, Ap
14	418.5	21.8	260	US-10-995-561-651	Sequence 651, App
15	381.5	19.8	246	US-10-995-561-657	Sequence 657, App
16	381	19.8	365	US-10-521-053-4	Sequence 4, Appli
17	370	19.3	280	US-10-995-561-655	Sequence 655, App
18	362.5	18.9	256	US-10-995-561-654	Sequence 654, App
19	338.5	17.6	242	US-10-995-561-648	Sequence 648, App
20	289.5	15.1	168	US-10-995-561-656	Sequence 656, App
21	221	11.5	57	US-10-517-784-2	Sequence 2, Appli
22	218	11.3	327	US-11-181-234-3	Sequence 3, Appli
23	189.5	9.9	333	US-11-181-234-5	Sequence 5, Appli
24	189.5	9.9	333	US-11-181-234-7	Sequence 7, Appli
25	178.5	9.3	266	US-10-884-730-85	Sequence 85, Appli

ALIGNMENTS

RESULT 1

US-10-821-234-1575
; Sequence 1575, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; PRIOR FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes version 1.0
; SEQ ID NO 1575
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1575

Query Match 77.7%; Score 1493; DB 6; Length 365;
Best Local Similarity 77.6%; Pred. No. 1.7e-111;
Matches 281; Conservative 29; Mismatches 52; Indels 0; Gaps 0;

QY	1	MAPRSLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGPRYIAVEYVDDTQFLRPDS	60
DB	4	MAPRSLLLSGALALTDTWAGSHSMRYFFTSVSRPGRGPRFIAGYVDDTQFLRPDS	63
QY	61	AAIPRMEPRPWEQEGPQYWEWTTGYAKANAQTDRVALRNLLRNNOSAGSHLTQGN	120
DB	64	AASQRMPEAPWIEQEGPEYWDGETRKYKHSQTHRVDLGLTGLRYNQSEAGSHTVQRM	123
QY	121	GCDMGDRLRGYHQHAYDGDYISLNEDELRSWTAADTAQITQRTFYEAEBYAEFRY	180
DB	124	GCDVSGDWRFLRGYHQYAYDGDYIATLKEDLRSWTAADMAAQTTHKWEAAHVAEQRAY	183
QY	181	LEGECLELLRYLENGLETLORADPPKAVAHPTISDHEATLRCHALGFYPAETLTWOR	240
DB	184	LEGTCVWRRLRYLENGKETLORTDAPKTHMTHAVSDHEATLRCHALGFYPAETLTWOR	243
QY	241	DGEETQDTLVELTRPAGDGTGFKWAAVVPVSGEQRYTCHVQHEGLPQPLTLRWEQSPQ	300
DB	244	DGEDTQDTLVELTRPAGDGTGFKWAAVVPVSGEQRYTCHVQHEGLPKPLTLRWEPSQ	303
QY	301	PTPIVGIVAGLVILGAVVTGAVVAANVMRKKSDNRNGSYQAQAVTDSAGSGVSLTAN	360

Db 304 PTPIVGIAGLVFGAVITGNVAAVWVRKSSDRKSGSYQAASSDSAQSSDVSITAC 363
Qy 361 KV 362
Db 364 KV 365

RESULT 2

US-10-821-234-1565
; Sequence 1565, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmeni, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt SEQ_genes Version 1.0
; SEQ ID NO 1565
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1565

Query Match 74.1%; Score 1424; DB 6; Length 338;
Best Local Similarity 79.1%; Pred. No. 4.8e-106;
Matches 265; Conservative 27; Mismatches 43; Indels 0; Gaps 0;

Qy 1 MAPRSLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRIYAVEYVDDTQFLRFSD 60
Db 4 MAPRSLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRIYAVEYVDDTQFLRFSD 63
Qy 61 AAIPRMEPREWVEQEGPOYWEWTTGYAKANAQTDVRVALNLLRRYNOSEAGSHTLQGMN 120
Db 64 SACPRMEPRAPWVEQEGPEYWEETRTNTKAAQTDNRMLQTLRLGYNOSEASSHTLQWMI 123
Qy 121 GCDMGPDGRLRGYHQHAYDGYKYLISNEDLSRSTAAQITQRFYEAEYAEPEPTY 180
Db 124 GCDLSDGRLRGYEQYAYDGYKYLALNEDLSRSTAAQITQRFYEAEYAEPEPTY 183
Qy 181 LECECLELRLRYLENGLETLQADPPKAAHVAHPISDHEATLRCWALGFYPAEITLTWQR 240
Db 184 LEGTCVWHLRYLENGKEMQLQADPPKTHVTHHPVDFEATLRCWALGFYPAEITLTWQR 243
Qy 241 DGEQTQDELVELTRPAGDGTGFKWAAVVPSPGEGEQRVTCHVQHEGLPQPLILRWQSPQ 300
Db 244 DGEDTQDELVELTRPAGDGTGFKWAAVVPSPGEGEQRVTCHVQHEGLPEPLMLRWKQSSL 303
Qy 301 PTPIVGIVAGLVGLGAVVTGAVVAAMVRKSSD 335
Db 304 PTPIVGIVAGLVGLGAVVTGAVVAAMVRKSSD 338

RESULT 3

US-10-821-234-1563
; Sequence 1563, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmeni, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07

; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt SEQ_genes Version 1.0
; SEQ ID NO 1563
; LENGTH: 358
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1563

Query Match 70.2%; Score 1350; DB 6; Length 358;
Best Local Similarity 72.2%; Pred. No. 4e-100;
Matches 255; Conservative 34; Mismatches 64; Indels 0; Gaps 0;

Qy 1 MAPRSLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRIYAVEYVDDTQFLRFSD 60
Db 1 MVDGTLILLSSALALQTWAGSHSLKYFHTSVSRPGRGEPRIYAVGVDDTQFVRFDND 60
Qy 61 AAIPRMEPREWVEQEGPOYWEWTTGYAKANAQTDVRVALNLLRRYNOSEAGSHTLQGMN 120
Db 61 AASPRMVPAPWVEQEGSEYWDRETRSDTAQIFRVLNRLTLRGYNOSEAGSHTLQWMI 120
Qy 121 GCDMGPDGRLRGYHQHAYDGYKYLISNEDLSRSTAAQITQRFYEAEYAEPEPTY 180
Db 121 GCELGPDGRLRGYEQYAYDGYKYLISNEDLSRSTAAQITQRFYEAEYAEPEPTY 180
Qy 181 LECECLELRLRYLENGLETLQADPPKAAHVAHPISDHEATLRCWALGFYPAEITLTWQR 240
Db 181 LEDTCVWHLRYLENGKEMQLQADPPKTHVTHHPISDHEATLRCWALGFYPAEITLTWQR 240
Qy 241 DGEQTQDELVELTRPAGDGTGFKWAAVVPSPGEGEQRVTCHVQHEGLPQPLILRWQSPQ 300
Db 241 DGEHTQDELVELTRPAGDGTGFKWAAVVPSPGEGEQRVTCHVQHEGLPEPVLIRKPSAQ 300
Qy 301 PTPIVGIVAGLVGLGAVVTGAVVAAMVRKSSDRNRGYSQAATVDSAQSS 353
Db 301 PTPIVGIVAGLVGLGAVVTGAVVAAMVRKSSDRNRGYSQAATVDSAQSS 353

RESULT 4

US-10-995-805-4
; Sequence 4, Application US/10995805
; Publication No. US20050287631A1
; GENERAL INFORMATION:
; APPLICANT: KROENKE, MARTIN
; APPLICANT: ZAVAZAVA, NICHOLAS
; TITLE OF INVENTION: COMPOSITIONS AND METHODS RELATED TO A DIMERIC MHC CLASS
; FILE REFERENCE: IOWA:054US
; CURRENT APPLICATION NUMBER: US/10/995,805
; CURRENT FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: 60/524,988
; PRIOR FILING DATE: 2003-11-25
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 530
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-805-4

Query Match 64.5%; Score 1239.5; DB 6; Length 530;
Best Local Similarity 73.1%; Pred. No. 4e-91;
Matches 231; Conservative 28; Mismatches 48; Indels 9; Gaps 1;

Qy 1 MAPRSLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRIYAVEYVDDTQFLRFSD 60
Db 4 MPRTLLILLSSALALQTWAGSHSLRYFHTSVSRPGRGEPRIYAVGVDDTQFVRFDND 63
Qy 61 AAIPRMEPREWVEQEGPOYWEWTTGYAKANAQTDVRVALNLLRRYNOSEAGSHTLQGMN 120
Db 64 AASQRMFPAPWVEQEGPEYWEETRTNTKAAQTDNRMLQTLRLGYNOSEAGSHTLQWMI 123

QY 121 GCDMGPDGRLRGYHQHAYDGDYISLNEDLRSWTAADTVQAQITQRFYABEYAEFRFY 180
 Db 124 GCDVSGDGRFLRGYQDAVDGKYIALNEDLRSWTAADMAAQITKRWAEARAEQLRAY 183
 QY 181 LECEGLLELLRRYLENGLETQADPPKAAHVAHPISDHEATLRCWALGFYPAEITLTWQ 240
 Db 184 LECEVDGLRRYLENGKETLQDTPPKTHHPISDHEATLRCWALGFYPAEITLTWQ 243
 QY 241 DGEEOQDTELVELTRPAGDGTQKAAVVPVSGEQRYYTCHVQHEGLPOPLILRWEQS-- 298
 Db 244 DGEEOQDTELVELTRPAGDGTQKAAVVPVSGEQRYYTCHVQHEGLPEPLTLRWEPKSC 303
 QY 299 -----POPTIPV 307
 Db 304 DKHTCPPCPAPELLG 319

RESULT 5

US-10-995-805-2
 ; Sequence 2, Application US/10995805
 ; Publication No. US20050287631A1
 ; GENERAL INFORMATION:
 ; APPLICANT: KROENKE, MARTIN
 ; APPLICANT: ZAVAZAVA, NICHOLAS
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS RELATED TO A DIMERIC MHC CLASS
 ; TITLE OF INVENTION: I AND II-LIKE MOLECULE (GSMHC I AND GSMHC II)
 ; FILE REFERENCE: IOWA:054US
 ; CURRENT APPLICATION NUMBER: US/10/995,805
 ; PRIOR FILING DATE: 2004-11-23
 ; PRIOR APPLICATION NUMBER: 60/524,988
 ; PRIOR FILING DATE: 2003-11-25
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 575
 ; TYPE: PRT
 ; ORGANISM: RAT
 US-10-995-805-2

Query Match 58.6%; Score 1126.5; DB 6; Length 575;
 Best Local Similarity 63.0%; Pred. No. 4.4e-82;
 Matches 216; Conservative 39; Mismatches 83; Indels 5; Gaps 1;

QY 1 MAPRSLLLSGALALTDTWAGSHSLRYSTAVSRPGRGEPRYIAVYVDYDQFLRFQSD 60
 Db 4 MAPRTLLLLAAALAPTQTRAGSHSMRYFDIAVSRPGLGEPRYISGVYVDHTFVRQSD 63
 QY 61 AAI PRMEPRPWEQEGPOYEWTTGYAKANAQTDORVALNLLRRYNQSEAGSHTLQGN 120
 Db 64 AENRYEPAPWREGEPPDYWERETQKAGNQNTYRVSURNLRRYNNQSEGSHTIORMY 123
 QY 121 GCDMGPDGRLRGYHQHAYDGDYISLNEDLRSWTAADTVQAQITQRFYABEYAEFRFY 180
 Db 124 GCDVGTGSLRGYQDAVDGKYIALNEDLRSWTAADTVQAQITKRWDRAGVARELAY 183
 QY 181 LECEGLLELLRRYLENGLETQADPPKAAHVAHPISDHEATLRCWALGFYPAEITLTWQ 240
 Db 184 LEGTCVEMLRYLENGKETLRLDPPKAAHVTLHPRPEGDVTLRCWALGFYPADISLWQL 243
 QY 241 DGEEOQDTELVELTRPAGDGTQKAAVVPVSGEQRYYTCHVQHEGLPOPLILRWE---- 296
 Db 244 NGEEDTQDMELVELTRPAGDGTQKAAVVPVSGEQRYYTCHVQHEGLPEPLTQWRWPSLS 303
 QY 297 -QSPQPTIPVIGVAGLVGLVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 338
 Db 304 TDSNMETVYVYVGLGAVAIIAVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 346

RESULT 6

US-11-072-512-3648
 ; Sequence 3648, Application US/11072512
 ; Publication No. US20060029945A1
 ; GENERAL INFORMATION:

; APPLICANT: ISOGAI, TAKAO
 ; APPLICANT: SUGIYAMA, TOMOYASU
 ; APPLICANT: OTSUKI, TETSUJI
 ; APPLICANT: WAKAMATSU, AI
 ; APPLICANT: SATO, HIROYUKI
 ; APPLICANT: ISHII, SHIZUKO
 ; APPLICANT: YAMAMOTO, JUN-ICHI
 ; APPLICANT: ISONO, YUUKO
 ; APPLICANT: HIO, YURI
 ; APPLICANT: OTSUKA, KAORU
 ; APPLICANT: NAGAI, KEIICHI
 ; APPLICANT: IRIE, RYOTARO
 ; APPLICANT: TAMECHIKA, ICHIRO
 ; APPLICANT: SEKI, NAOHICO
 ; APPLICANT: YOSHIKAWA, TSUTOMU
 ; APPLICANT: OTSUKA, MOTOMYUKI
 ; APPLICANT: NAGAHARI, KENJI
 ; APPLICANT: MASUHO, YASUHIKO
 ; TITLE OF INVENTION: Novel full length cDNA
 ; FILE REFERENCE: 084335-0191
 ; CURRENT APPLICATION NUMBER: US/11/072,512
 ; CURRENT FILING DATE: 2005-03-07
 ; PRIOR APPLICATION NUMBER: US 60/350,978
 ; PRIOR FILING DATE: 2002-01-25
 ; PRIOR APPLICATION NUMBER: JP 2001-379298
 ; PRIOR FILING DATE: 2001-11-05
 ; NUMBER OF SEQ ID NOS: 4096
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3648
 ; LENGTH: 284
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-11-072-512-3648

Query Match 51.2%; Score 985; DB 7; Length 284;
 Best Local Similarity 81.2%; Pred. No. 3.5e-71;
 Matches 182; Conservative 16; Mismatches 26; Indels 0; Gaps 0;

QY 112 GSHTLQGMGCDMGPDGRLRGYHQHAYDGDYISLNEDLRSWTAADTVQAQITQRFYAB 171
 Db 61 GSHTLQGMGCDMGPDGRLRGYHQHAYDGDYISLNEDLRSWTAADTVQAQISKRKCEAA 120
 QY 172 EYAEFRFYLEGECELELLRRYLENGLETQADPPKAAHVAHPISDHEATLRCWALGFY 231
 Db 121 NVAEQRAYLEGTCTVEWLRHYLENGKEMQLQADPPKTHVTHPVPDYEAATLRCWALGFY 180
 QY 232 AEITLTWQDGEEOQDTELVELTRPAGDGTQKAAVVPVSGEQRYYTCHVQHEGLPOPL 291
 Db 181 AEITLTWQDGEEOQDTELVELTRPAGDGTQKAAVVPVSGEQRYYTCHVQHEGLPEPL 240
 QY 292 ILRWEQSQPTIPVIGVAGLVGLVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 335
 Db 241 MLRWKQSSLPITPINGVAGLVGLVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVVAVV 284

RESULT 7

US-11-072-512-3304
 ; Sequence 3304, Application US/11072512
 ; Publication No. US20060029945A1
 ; GENERAL INFORMATION:

; APPLICANT: ISOGAI, TAKAO
 ; APPLICANT: SUGIYAMA, TOMOYASU
 ; APPLICANT: OTSUKI, TETSUJI
 ; APPLICANT: WAKAMATSU, AI
 ; APPLICANT: SATO, HIROYUKI
 ; APPLICANT: ISHII, SHIZUKO
 ; APPLICANT: YAMAMOTO, JUN-ICHI
 ; APPLICANT: ISONO, YUUKO
 ; APPLICANT: HIO, YURI
 ; APPLICANT: OTSUKA, KAORU
 ; APPLICANT: NAGAI, KEIICHI
 ; APPLICANT: IRIE, RYOTARO
 ; APPLICANT: TAMECHIKA, ICHIRO


```

; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 652
; LENGTH: 325
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-652

Query Match      25.1%; Score 485; DB 6; Length 325;
Best Local Similarity 34.1%; Pred. No. 2.6e-31;
Matches 119; Conservative 59; Mismatches 133; Indels 38; Gaps 12;

QY 1 MAPR---SLLLSGALALTDWTAGSHSLRYFSTAVSRPGRGPRVIAVEYVDDTQFLRF 57
Db 1 MGRPRAPALLM-----LLOQAVL-----QGRLLPGYVDDQLFVY 38

QY 58 DSDAIPRMEPREPWYQEB-GPYWETWTTGYAKANAQTDRLVALNLLRRYNSQSEAGSHTL 116
Db 39 DHESR--RVEPRTPWSSRISQMWQLQSLKGDHDMFTVDFWTIMENHNSKE-SHTL 95

QY 117 QGMGCDMGPDGRLRLRGYHAYDGYKDYISLNEDLSWTAADTVAQITQRFYAESEY-AE 175
Db 96 QVILGCEMOEDNS-TEGYWKYGYDGDHLEFCPDTLDMRAABPRAWPTKLEWERHKIRAR 154

QY 176 EPRTYLEGECLLELLRRYLENGLETQADPPKAAVHAHPISDHEATLRCWALGFYPAET 235
Db 155 QNAYLERDCPAQLQQLLELGRVLDQVPLVKTTHH-VTSSVTLRCRALNYYPQNI 213

QY 236 LTWQDGEQOTDELVETR---PAGDGTGFKWAAVVPVSGEQRYSYCHVQHEGLPQPLI 292
Db 214 MKWLKD--KQPMDAKEFEKDVLPNGDGYQGMITLAVPPGEEQRYTCQVHPGLDQPLI 271

QY 293 LWEQSPQPTIPVIGVAGLVGAVTVGAUVAAMVRKSSDRNRGSY 341
Db 272 VIWEPSPSGTL-VIGVISGIAVFFVILFIFILRKQSGRGAMGY 319

RESULT 11
US-10-995-561-658
; Sequence 658, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 658
; LENGTH: 334
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-658

Query Match      25.1%; Score 482.5; DB 6; Length 334;
Best Local Similarity 34.0%; Pred. No. 4.2e-31;
Matches 119; Conservative 56; Mismatches 144; Indels 31; Gaps 10;

QY 1 MAPR---SLLLSGALALTDWTAGSHSLRYFSTAVSRPGRGPRVIAVEYVDDTQFLR 56
Db 1 MGRPRAPALLMLLQAVLQVLRSLRSHLYLFMGASEQDGLSLFALGVDDQLFVY 60

QY 57 FSDAAIPRMEPREPWYQEB-GPYWETWTTGYAKANAQTDRLVALNLLRRYNSQSEAGSHT 115
Db 61 YDHESR--RVEPRTPWSSRISQMWQLQSLKGDHDMFTVDFWTIMENHNSKE-SHT 117

; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 652
; LENGTH: 325
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-652

Query Match      25.1%; Score 481.5; DB 7; Length 295;
Best Local Similarity 36.5%; Pred. No. 4.3e-31;
Matches 110; Conservative 49; Mismatches 133; Indels 9; Gaps 7;

QY 1 MAPRSL-LLLLSGALALTDWTAGSHSLRYFSTAVSRPGRGPRVIAVEYVDDTQFLRPS 59
Db 1 MVPVLSLLLLGPAVPOENQDGRYSLTYYTGLSKHVEDVPFQALGSLNDLQFFRYS 60

QY 60 DAAIPRMEPREPWYQEBGPQYWEWTTGYAKANAQTDRLVALNLLRRYNSQSEAGSHTLQGM 119
Db 61 KDR--KSQPMGLWRQVEGMEDWKQDSQLQKAREDFMETLKDIIVEYVNDN-GSHVLQGR 117

QY 120 NGCDMGPDGRLRLRGYHAYDGYKDYISLNEDLSWTAADTVAQITQRFYAESEY-AE 178
Db 118 FGCSEI-ENNRSSGAPFWKYDYDGYIEFNKIPAWVPDPAAQITKQWAEFPVQRAK 176

QY 179 TYLEGECLLELLRRYLENGLETQADPPKAAVHAHPISDHEATLRCWALGFYPAETITM 238
Db 177 AYLBECPCATLRKYLKYSKNILDRQDPPSVVVTSHQAGEKKKGLCLAYDFPGKIDVHM 236

QY 239 QRDGEQOTQDTEL-VETRPAGDGTGFKWAAVVPVSGEQRYSYCHVQHEGLPQPLIRWEQ 297
Db 237 TRAGE--VQEPGLRGDLHNGNGTVQSVWVAVPPQDTAPYSCHVQHSSLAQLVVPWEA 294

QY 298 S 298
Db 295 S 295

RESULT 13
US-11-072-512-1978
; Sequence 1978, Application US/11072512

```


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OM protein - protein search, using sw model

Run on: April 7, 2006, 12:39:36 ; Search time 27.0458 Seconds
(without alignments)
837.583 Million cell updates/sec

Title: US-09-819-371-5
Perfect score: 1496
Sequence: 1 GSHSLRYSTAVSRGRGEP.....QRYTCHVOHGLPQPLILRW 274

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgm2_6/ptodata/1/iaa/5 COMB.pep.*
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5: /cgm2_6/ptodata/1/iaa/RE COMB.pep.*
6: /cgm2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1491	99.7	362	2	US-09-949-016-8242
2	1248	83.4	274	1	US-08-222-851-1
3	1184	79.1	338	2	US-09-949-016-6176
4	1184	79.1	339	1	US-09-949-016-8636
5	1154	77.1	365	2	US-08-484-905-100
6	1154	77.1	365	2	US-08-481-985B-100
7	1154	77.1	365	2	US-08-652-265-23
8	1154	77.1	365	2	US-08-834-497A-23
9	1154	77.1	365	2	US-08-370-476-100
10	1154	77.1	365	2	US-09-503-444A-23
11	1153	77.1	341	2	US-08-890-719-38
12	1151	76.9	365	1	US-08-484-905-99
13	1151	76.9	365	1	US-08-484-905-104
14	1151	76.9	365	2	US-08-481-985B-99
15	1151	76.9	365	2	US-08-481-985B-104
16	1151	76.9	365	2	US-08-370-476-99
17	1151	76.9	365	2	US-08-370-476-104
18	1150	76.9	274	1	US-08-484-905-107
19	1150	76.9	274	1	US-08-484-905-108
20	1150	76.9	274	2	US-08-481-985B-107
21	1150	76.9	274	2	US-08-481-985B-108
22	1150	76.9	274	2	US-08-370-476-107
23	1150	76.9	274	2	US-08-370-476-108
24	1147	76.7	365	1	US-08-484-905-97
25	1147	76.7	365	1	US-08-484-905-98
26	1147	76.7	365	2	US-08-481-985B-97
27	1147	76.7	365	2	US-08-481-985B-98

28	1147	76.7	365	2	US-08-370-476-97	Sequence 97, Appl
29	1147	76.7	365	2	US-08-370-476-98	Sequence 98, Appl
30	1146	76.6	274	1	US-08-484-905-105	Sequence 105, App
31	1146	76.6	274	2	US-08-481-985B-105	Sequence 105, App
32	1146	76.6	274	2	US-08-370-476-105	Sequence 105, App
33	1142	76.3	274	1	US-08-484-905-106	Sequence 106, App
34	1142	76.3	274	2	US-08-481-985B-106	Sequence 106, App
35	1142	76.3	274	2	US-08-370-476-106	Sequence 106, App
36	1142	76.3	365	1	US-08-484-905-103	Sequence 103, App
37	1142	76.3	365	2	US-08-481-985B-103	Sequence 103, App
38	1142	76.3	365	2	US-08-370-476-103	Sequence 103, App
39	1141	76.3	365	1	US-08-484-905-102	Sequence 102, App
40	1141	76.3	365	2	US-08-481-985B-102	Sequence 102, App
41	1141	76.3	365	2	US-08-370-476-102	Sequence 102, App
42	1133	75.7	365	1	US-08-484-905-101	Sequence 101, App
43	1133	75.7	365	2	US-08-481-985B-101	Sequence 101, App
44	1133	75.7	365	2	US-08-370-476-101	Sequence 101, App
45	1097	73.3	358	2	US-09-949-016-6620	Sequence 6620, Ap

ALIGNMENTS

RESULT 1

US-09-949-016-8242
; Sequence 8242, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8242
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-8242

Query Match 99.7%; Score 1491; DB 2; Length 362;

Best Local Similarity 99.6%; Pred. No. 1.9e-137;

Matches 273; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	1	GSHSLRYSTAVSRGRGEPYIAVEYDDTQFLRFSDAAIPRMEPRPWEQGPQYW	60
Db	22	GSHSLRYSTAVSRGRGEPYIAVEYDDTQFLRFSDAAIPRMEPRPWEQGPQYW	81
Qy	61	EWTTGYAKANAQTDRLVALNLLRRYNSGASHTLQGNNGCDMGPDGRLLRGYHQAIDG	120
Db	82	EWTTGYAKANAQTDRLVALNLLRRYNSGASHTLQGNNGCDMGPDGRLLRGYHQAIDG	141
Qy	121	KDYISLNEEDLSRWTAADTVAQITQRFYAEAYAEFRYTLSEGCLELLRLRYLENGKETLQ	180
Db	142	KDYISLNEEDLSRWTAADTVAQITQRFYAEAYAEFRYTLSEGCLELLRLRYLENGKETLQ	201
Qy	181	RADPPKAHVAHPISDHEATLRCWALGFYPAITLTWQDGEETOTELVETPAGDGT	240
Db	202	RADPPKAHVAHPISDHEATLRCWALGFYPAITLTWQDGEETOTELVETPAGDGT	261
Qy	241	FKQWAAVVPSPGSEQRVTCHVQHEGLPQPLILRW	274
Db	262	FKQWAAVVPSPGSEQRVTCHVQHEGLPQPLILRW	295

RESULT 2
US-08-222-851-1
; Sequence 1, Application US/08222851
; Patent No. 5723128
; GENERAL INFORMATION:
; APPLICANT: CLAYBERGER, CAROL A.
; APPLICANT: KHENSKY, ALAN M.
; APPLICANT: PARHAM, PETER
; TITLE OF INVENTION: CYTOTOXIC T-CELL LYMPHOCYTE ("CTL")
; TITLE OF INVENTION: ACTIVITY REGULATION BY CLASS I MHC PEPTIDES
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 PENNSYLVANIA AVENUE, NW, STE 5500
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1812
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/222,851
; FILING DATE: 05-APR-1994
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: MILLMAN, ROBERT A.
; REGISTRATION NUMBER: 36,217
; REFERENCE/DOCKET NUMBER: 28600-20200.22
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 494-0792
; TELEX: 90-4030 MRSNFOERSWSH
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 274 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-222-851-1

Query Match 83.4%; Score 1248; DB 1; Length 274;
Best Local Similarity 82.8%; Pred. No. 7.5e-114;
Matches 227; Conservative 17; Mismatches 30; Indels 0; Gaps 0;
Qy 1 GSHSLRYFSTAVSRPGRGEPRYIAVEYVDDTQFLRFSDSDAAIPRMEPRPWPVEQEGPOYW 60
Db 1 GSHSNRYFTYTSVRPGRGEPRFIAGYVDDTQFVRFSDSDASPRMEPRAPWIEQEGPEYW 60
Qy 61 EWTGYAKANAQTRVALNRLRRYNSQSEAGSHTLQGMNGCDMGDPGRLRLRGYHQHAYDG 120
Db 61 DRETQIVRAQSDTREDLRLTGLRGYNQSEAGSHTTQRMVCGDVGDPGRLRLRGYHQYAYDG 120
Qy 121 KDYISLNEDLSRWTAADTVAQITQRFYAEAEYAEFRYLEGECLLELLRRYLENGKETLQ 180
Db 121 KDYIALNEDLSRWTAADTVAQITQRKWEAARVAEQRLAYLGTCVWELRRYLENGKETLQ 180
Qy 181 RADPPKARVAHPISDHEATLRCWALGFYPAEITLTWQDGEEOQTDTVELVETRPAGDGT 240
Db 181 RADPPKTHVTHHPISDHEATLRCWALGFYPAEITLTWQDGEDQTDVELVETRPAGDGT 240
Qy 241 FQKWAADVVPSEGEQRYTCHVQHEGLPQPLILRW 274
Db 241 FQKWAADVVPSEGEQRYTCHVQHEGLPKPLILRW 274

RESULT 3
US-09-949-016-6176
; Sequence 6176, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USBS THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6176
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6176

Query Match 79.1%; Score 1184; DB 2; Length 338;
Best Local Similarity 78.8%; Pred. No. 1.8e-107;
Matches 216; Conservative 22; Mismatches 36; Indels 0; Gaps 0;
Qy 1 GSHSLRYFSTAVSRPGRGEPRYIAVEYVDDTQFLRFSDSDAAIPRMEPRPWPVEQEGPOYW 60
Db 25 GSHSNRYFTSAVSRPGRGEPRFIAGYVDDTQFVRFSDSDASPRMEPRAPWIEQEGPEYW 84
Qy 61 EWTGYAKANAQTRVALNRLRRYNSQSEAGSHTLQGMNGCDMGDPGRLRLRGYHQHAYDG 120
Db 85 EETRTNKAAQTRDMNLQTLRGYNQSEASSTLTQMMIGDLSGDRLLRGYEQYAYDG 144
Qy 121 KDYISLNEDLSRWTAADTVAQITQRFYAEAEYAEFRYLEGECLLELLRRYLENGKETLQ 180
Db 145 KDYIALNEDLSRWTAADTAAQISKRKCEAANVAEQRRAYLGTCVWELRRYLENGKEMLQ 204
Qy 181 RADPPKARVAHPISDHEATLRCWALGFYPAEITLTWQDGEEOQTDTVELVETRPAGDGT 240
Db 205 RADPPKTHVTHHPVDFYEAULRCWALGFYPAEITLTWQDGEDQTDVELVETRPAGDGT 264
Qy 241 FQKWAADVVPSEGEQRYTCHVQHEGLPQPLILRW 274
Db 265 FQKWAADVVPSEGEQRYTCHVQHEGLPEPLILRW 298

RESULT 4
US-09-949-016-8636
; Sequence 8636, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USBS THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8636
; LENGTH: 339
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-8636

Query Match 79.1%; Score 1184; DB 2; Length 339;
Best Local Similarity 78.8%; Pred. No. 1.8e-107;
Matches 216; Conservative 22; Mismatches 36; Indels 0; Gaps 0;

US-08-484-905-100

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; TOPOLOGY: linear
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; TOPOLOGY: linear


```

; NAME: Poissant, Brian M.
; REGISTRATION NUMBER: 28,462
; REFERENCE/DOCKET NUMBER: 8907-0056-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-493-4935
; TELEFAX: 650-493-5556
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..365
; OTHER INFORMATION: /note= "Human Major Histocompatibility
; OTHER INFORMATION: Class I (MHC) protein"
US-08-834-497A-23

Query Match 77.1%; Score 1154; DB 2; Length 365;
Best Local Similarity 77.0%; Pred. No. 1.7e-104;
Matches 211; Conservative 21; Mismatches 42; Indels 0; Gaps 0;

QY 1 GSHSLRYSTAVSRGEGPRVIAVEYVDDTQFLRFDSDAAIPRMEPRPWPVEQSGPQYW 60
Db |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
25 GSHSMRYFTSVSRGEGPRVIAVEYVDDTQFLRFDSDAAISQRMEPRAPWIEQSGPEYW 84
QY 61 EWTGYAKANAQTDRLVALNRLRRYNQSEAGSHTLQGMNGCDMGDPDGRLLRGYHQAIDG 120
Db |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
85 DGETKRVKXHSQTHRVLDLSTLRGYNQSEAGSHTVQRMFGCDVGSDFLRGYHQAIDG 144
QY 121 KYISLNEDLRSWTAADTVAQITQRFYAEAEYAEFRYVLEGECELELLRRYLENGKETLQ 180
Db |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
145 KYIALKEDLRSWTAADMAAQTTKKWEAAHVAEQRLAYLEGTVCVWLRRLYLENGKETLQ 204
QY 181 RADPPKAVVAHPISDHEATLRCWALGFYPAEITLITWQDGBEQTQDTLTVETRPAGDGT 240
Db |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
205 RTDAPKTHMTHAVSDHEATLRCWALSFPASITLITWQDGBEQTQDTLTVETRPAGDGT 264
QY 241 FQKMAAVVVPSEGEQRYTCHVQHEGLPKPLILRW 274
Db |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
265 FQKMAAVVVPSEGEQRYTCHVQHEGLPKPLILRW 298

RESULT 9
US-08-370-476-100
; Sequence 100, Application US/08370476
; Patent No. 6153408
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; APPLICANT: Lone, Yu-Chun
; APPLICANT: Ojcius, David
; APPLICANT: Casrouge, Armanda
; TITLE OF INVENTION: Altered Major Histocompatibility Complex
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/370,476
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/117,575
; FILING DATE: 07-SEP-1993
; APPLICATION NUMBER: US 08/072,787
; FILING DATE: 06-JUN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 05243.0001-01000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 100:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-370-476-100

Query Match 77.1%; Score 1154; DB 2; Length 365;
Best Local Similarity 76.6%; Pred. No. 1.7e-104;
Matches 210; Conservative 22; Mismatches 42; Indels 0; Gaps 0;

QY 1 GSHSLRYSTAVSRGEGPRVIAVEYVDDTQFLRFDSDAAIPRMEPRPWPVEQSGPQYW 60
Db |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
25 GSHSMRYFTSVSRGEGPRVIAVEYVDDTQFLRFDSDAAISQRMEPRAPWIEQSGPEYW 84
QY 61 EWTGYAKANAQTDRLVALNRLRRYNQSEAGSHTLQGMNGCDMGDPDGRLLRGYHQAIDG 120
Db |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
85 DGETKRVKXHSQTHRVLDLSTLRGYNQSEAGSHTVQRMFGCDVGSDFLRGYHQAIDG 144
QY 121 KYISLNEDLRSWTAADTVAQITQRFYAEAEYAEFRYVLEGECELELLRRYLENGKETLQ 180
Db |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
145 KYIALKEDLRSWTAADMAAQTTKKWEAAHVAEQRLAYLEGTVCVWLRRLYLENGKETLQ 204
QY 181 RADPPKAVVAHPISDHEATLRCWALGFYPAEITLITWQDGBEQTQDTLTVETRPAGDGT 240
Db |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
205 RTDAPKTHMTHAVSDHEATLRCWALSFPASITLITWQDGBEQTQDTLTVETRPAGDGT 264
QY 241 FQKMAAVVVPSEGEQRYTCHVQHEGLPKPLILRW 274
Db |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
265 FQKMAAVVVPSEGEQRYTCHVQHEGLPKPLILRW 298

RESULT 10
US-09-503-444A-23
; Sequence 23, Application US/09503444A
; Patent No. 6228594
; GENERAL INFORMATION:
; APPLICANT: Thomas, Winston J.
; APPLICANT: Drayna, Dennis T.
; APPLICANT: Feder, John N.
; APPLICANT: Ghitke, Andreas
; APPLICANT: Ruddy, David
; APPLICANT: Teuchihashi, Zenta
; APPLICANT: Wolff, Roger K.
; TITLE OF INVENTION: Hereditary Hemochromatosis Gene
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York

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; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: WordPerfect Version 8
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/503,444A
; FILING DATE: 14-Feb-2000
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/652,265
; FILING DATE: 23-May-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,673
; FILING DATE: 16-Apr-1996
; APPLICATION DATA:
; APPLICATION NUMBER: 08/630,912
; FILING DATE: 04-Apr-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Poissant, Brian M.
; REGISTRATION NUMBER: 28,462
; REFERENCE/DOCKET NUMBER: 8907-0088-999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212-869-9741
; TELEX: 66141
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..365
; OTHER INFORMATION: /note= "Human Major Histocompatibility
; OTHER INFORMATION: Class I (MHC) protein"
US-09-503-444A-23

Query Match 77.1%; Score 1154; DB 2; Length 365;
Best Local Similarity 77.0%; Pred. No. 1.7e-104;
Matches 211; Conservative 21; Mismatches 42; Indels 0; Gaps 0;

Qy 1 GSHSLRYFSTAVSRPGRGEPRIAYEVYDDTQFLRFDSDAIPRMEPRPWPVEQGPQYW 60
Db 25 GSHSMRYFSTSVSRPGRGEPRIAYGVYDDTQVRFDSDAASQRMPEPRAPWIEQGPYW 84
Qy 61 EWTGYAKANAQTDRLVALRNLRLRYNQSEAGSHTLQGMNGCDMGPDGRLRLRYHAYDG 120
Db 85 DGETRKVKAHQTHRVLDLGLRGYNNQSEAGSHTVQRMVCGDVGSDWRFAGYHAYDG 144
Qy 121 KDYISLNEEDLSRTAAADTVAQITQRYFAEYAEFFTYLGECELELLRRYLENGKETLQ 180
Db 145 KDYIALKEDLSRTAAADMAAQTTKHWEAAHVAEQRLAYLEGTVCVEWLRYLENGKETLQ 204
Qy 181 RADPKAHVAHPISDHEATLRCWALGFYPAEITLTWQDGEQOTQDTLVETRPAGDGT 240
Db 205 RTDAPKTHMTHAVSDHEATLRCWALSFPYPAEITLTWQDGEDQDTQDTLVETRPAGDGT 264
Qy 241 FQKWAAVVPVSGEQRYTCHVQHEGLPQPLILRW 274
Db 265 FQKWAAVVPVSGEQRYTCHVQHEGLPKPLILRW 298

RESULT 11
US-08-890-719-38
; Sequence 38, Application US/08890719A
; Patent No. 6075125
; GENERAL INFORMATION:
; APPLICANT: Bacon, Larry D
```

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; APPLICANT: Hunt, Henry D
; APPLICANT: Fulton, Janet
; TITLE OF INVENTION: Production of Antisera Specific to Major
; TITLE OF INVENTION: Histocompatibility Complex Molecules in Chickens
; FILE REFERENCE: Dkt 0064.96 - Larry D. Bacon et al.
; CURRENT APPLICATION NUMBER: US/08/890,719A
; CURRENT FILING DATE: 1997-07-09
; EARLIER APPLICATION NUMBER: 60/021,685
; EARLIER FILING DATE: 1996-07-10
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 38
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-890-719-38

Query Match 77.1%; Score 1153; DB 2; Length 341;
Best Local Similarity 76.6%; Pred. No. 2e-104;
Matches 210; Conservative 22; Mismatches 42; Indels 0; Gaps 0;

Qy 1 GSHSLRYFSTAVSRPGRGEPRIAYEVYDDTQFLRFDSDAIPRMEPRPWPVEQGPQYW 60
Db 1 GSHSMRYFSTSVSRPGRGEPRIAYGVYDDTQVRFDSDAASQRMPEPRAPWIEQGPYW 60
Qy 61 EWTGYAKANAQTDRLVALRNLRLRYNQSEAGSHTLQGMNGCDMGPDGRLRLRYHAYDG 120
Db 61 DGETRKVKAHQTHRVLDLGLRGYNNQSEAGSHTVQRMVCGDVGSDWRFAGYHAYDG 120
Qy 121 KDYISLNEEDLSRTAAADTVAQITQRYFAEYAEFFTYLGECELELLRRYLENGKETLQ 180
Db 121 KDYIALKEDLSRTAAADMAAQTTKHWEAAHVAEQRLAYLEGTVCVEWLRYLENGKETLQ 180
Qy 181 RADPKAHVAHPISDHEATLRCWALGFYPAEITLTWQDGEQOTQDTLVETRPAGDGT 240
Db 181 RTDAPKTHMTHAVSDHEATLRCWALSFPYPAEITLTWQDGEDQDTQDTLVETRPAGDGT 240
Qy 241 FQKWAAVVPVSGEQRYTCHVQHEGLPQPLILRW 274
Db 241 FQKWAAVVPVSGEQRYTCHVQHEGLPKPLILRW 274

RESULT 12
US-08-484-905-99
; Sequence 99, Application US/08484905
; Patent No. 5976551
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: An Altered Major Histocompatibility
; TITLE OF INVENTION: Complex(MHC) Determinant and Methods for Using the
; TITLE OF INVENTION: Determinant
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,905
; FILING DATE: 07-JUNE-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
```



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; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 03495.0106-03000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 99:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-905-99

Query Match 76.9%; Score 1151; DB 1; Length 365;
Best Local Similarity 76.3%; Pred. No. 3.4e-104;
Matches 209; Conservative 23; Mismatches 42; Indels 0; Gaps 0;

QY 1 GSHSLRYSTAVSRGCGEPRIYVYDDTQFLRFDSDAAIPRMEPRPWPVEQSGPQYW 60
DB 25 GSHSMRYPTSVSRGCGEPRIYVYDDTQFLRFDSDAAIPRMEPRPWPVEQSGPQYW 84
QY 61 EWTTCYAKANAQTDVALNLRNRYNQSAGSHTLQGMNGCDMPDGLRLRGYHQAIDG 120
DB 85 DEETRKVAHSQTHRVLDLSTLGRYNGSAGSHTVORMYGCDDVSGDGRFLRGYHQAIDG 144
QY 121 KDYISLNBLSWTAADTVAQITQRYFAEYAEYAEFRYLYEGCELELLRRYLENGKETLQ 180
DB 145 KDYIALKEDLSWTAADTVAQITQRYFAEYAEYAEFRYLYEGCELELLRRYLENGKETLQ 204
QY 181 RADPPKVAHVHPISDHEATLRCWALGFYPAEITLTWQDGEQOTDELVETRPAGDGT 240
DB 205 RTDAPKTHMTHAVSDHEATLRCWALSFPYAEITLTWQDGEQOTDELVETRPAGDGT 264
QY 241 FQKAAVVPVSGEORYTCHVOHEGLPOPLILRW 274
DB 265 FQKAAVVPVSGEORYTCHVOHEGLPKPLTLPW 298

RESULT 13
US-08-484-905-104
; Sequence 104, Application US/08484905
; Patent No. 5976551
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: An Altered Major Histocompatibility
; TITLE OF INVENTION: Complex (MHC) Determinant and Methods for Using the
; TITLE OF INVENTION: Determinant
; NUMBER OF SEQUENCES: 127
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS-/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,905
; FILING DATE: 07-JUNE-1995
; CLASSIFICATION: 530
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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 03495.0106-03000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-905-104

Query Match 76.9%; Score 1151; DB 1; Length 365;
Best Local Similarity 76.3%; Pred. No. 3.4e-104;
Matches 209; Conservative 22; Mismatches 43; Indels 0; Gaps 0;

QY 1 GSHSLRYSTAVSRGCGEPRIYVYDDTQFLRFDSDAAIPRMEPRPWPVEQSGPQYW 60
DB 25 GSHSMRYPTSVSRGCGEPRIYVYDDTQFLRFDSDAAIPRMEPRPWPVEQSGPQYW 84
QY 61 EWTTCYAKANAQTDVALNLRNRYNQSAGSHTLQGMNGCDMPDGLRLRGYHQAIDG 120
DB 85 DFNTENVKAQQTDEVDLSTLGRYNGSAGSHTIOMYGCDDVSGDGRFLRGYHQAIDG 144
QY 121 KDYISLNBLSWTAADTVAQITQRYFAEYAEYAEFRYLYEGCELELLRRYLENGKETLQ 180
DB 145 KDYIALKEDLSWTAADTVAQITQRYFAEYAEYAEFRYLYEGCELELLRRYLENGKETLQ 204
QY 181 RADPPKVAHVHPISDHEATLRCWALGFYPAEITLTWQDGEQOTDELVETRPAGDGT 240
DB 205 RTDAPKTHMTHAVSDHEATLRCWALSFPYAEITLTWQDGEQOTDELVETRPAGDGT 264
QY 241 FQKAAVVPVSGEORYTCHVOHEGLPOPLILRW 274
DB 265 FQKAAVVPVSGEORYTCHVOHEGLPKPLTLPW 298

RESULT 14
US-08-481-985B-99
; Sequence 99, Application US/08481985B
; Patent No. 6011146
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: Altered Major Histocompatibility Complex
; TITLE OF INVENTION:
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/481,985B
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;
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 03495.0106-04000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 99:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-481-985B-99

Query Match 76.9%; Score 1151; DB 2; Length 365;
Best Local Similarity 76.3%; Pred. No. 3.4e-104;
Matches 209; Conservative 23; Mismatches 42; Indels 0; Gaps 0;

Qy 1 GSHSLRYFSTAVSRPGRGEPRIYIAVEYVDDTQFLRFSDAAIPRMEPRPWPVEQGPQYW 60
Db |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
25 GSHSMRYFTTSVSRPGRGEPRIYIAVGYYDDTQFVRFSDAASQRMPEPRAPWIEQGPYW 84
Qy :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
61 EWTGYAKANAQTDVRLNLLRRYNSQSEAGSHTLQMGNGCDMGPDGRLRGYHQHAYDG 120
Db DGETRKVKVAKSCITRVDLSTLRGYNSQSEAGSHTVORMYGCDDVSGDGRFLRGYHQYAYDG 144
Qy 121 KDYISLNEDLRSWTAADTVAQITQRFYEAEBYAEFEFTYLEGECLELLRRYLENGKETLQ 180
Db 145 KDYLKEDLRSWTAADMAAQTTKHWEAAHVAEQWRAYLEGTCVEWLRRLYLENGKETLQ 204
Qy 181 RADPPKAHVHPISDHEATLRCWALGFYPABEITLTWQDGEEOQTDTLVELVETRPAGDGT 240
Db 205 RTDAPKTHMTHAVSDHEATLRCWALSFPABEITLTWQDGEDQTDQDELVELVETRPAGDGT 264
Qy 241 FQKWAADVVPSEGEORYTCHVQHEGLPQPLILRW 274
Db 265 FQKWAADVVPSEGEORYTCHVQHEGLPKPLTLPW 298

RESULT 15
US-08-481-985B-104
; Sequence 104, Application US/08481985B
; Patent No. 6011146
; GENERAL INFORMATION:
; APPLICANT: Mottez, Estelle
; APPLICANT: Abastado, Jean-Pierre
; APPLICANT: Kourilsky, Philippe
; TITLE OF INVENTION: Altered Major Histocompatibility Complex
; TITLE OF INVENTION:
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/481,985B
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/801,818
; FILING DATE: 05-DEC-1991
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/792,473
; FILING DATE: 15-NOV-1991
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 03495.0106-04000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 104:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 365 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-481-985B-104

Query Match 76.9%; Score 1151; DB 2; Length 365;
Best Local Similarity 76.3%; Pred. No. 3.4e-104;
Matches 209; Conservative 22; Mismatches 43; Indels 0; Gaps 0;

Qy 1 GSHSLRYFSTAVSRPGRGEPRIYIAVEYVDDTQFLRFSDAAIPRMEPRPWPVEQGPQYW 60
Db |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
25 GSHSMRYFTTSVSRPGRGEPRIYIAVGYYDDTQFVRFSDAASQRMPEPRAPWIEQGPYW 84
Qy 61 EWTGYAKANAQTDVRLNLLRRYNSQSEAGSHTLQMGNGCDMGPDGRLRGYHQHAYDG 120
Db 85 DFNTRNVKASQTDVRLSTLRGYNSQSEAGSHTIQMYGCDVSGDGRFLRGYQDAYDG 144
Qy 121 KDYISLNEDLRSWTAADTVAQITQRFYEAEBYAEFEFTYLEGECLELLRRYLENGKETLQ 180
Db 145 KDYLKEDLRSWTAADMAAQTTKHWEAAHVAEQWRAYLEGTCVEWLRRLYLENGKETLQ 204
Qy 181 RADPPKAHVHPISDHEATLRCWALGFYPABEITLTWQDGEEOQTDTLVELVETRPAGDGT 240
Db 205 RTDAPKTHMTHAVSDHEATLRCWALSFPABEITLTWQDGEDQTDQDELVELVETRPAGDGT 264
Qy 241 FQKWAADVVPSEGEORYTCHVQHEGLPQPLILRW 274
Db 265 FQKWAADVVPSEGEORYTCHVQHEGLPKPLTLPW 298

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GenCore version 5.1.1.7
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OM protein - protein search, using sw model

Run on: April 7, 2006, 13:01:26 ; Search time 12.557 Seconds
(without alignments)
680.625 Million cell updates/sec

Title: US-09-819-371-5
Perfect score: 1496
Sequence: 1 GSHSLRYSTAVSRGRCPEP.....QRYTCHVQHEGLPQLILRW 274

Scoring table: BLOSUM62

Searched: Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 184161

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:
1: /SIDSS/prodata/1/pubpaa/US08_NEW_PUB.pap:*
2: /SIDSS/prodata/1/pubpaa/US06_NEW_PUB.pap:*
3: /SIDSS/prodata/1/pubpaa/US07_NEW_PUB.pap:*
4: /SIDSS/prodata/1/pubpaa/PCT_NEW_PUB.pap:*
5: /SIDSS/prodata/1/pubpaa/US09_NEW_PUB.pap:*
6: /SIDSS/prodata/1/pubpaa/US10_NEW_PUB.pap:*
7: /SIDSS/prodata/1/pubpaa/US11_NEW_PUB.pap:*
8: /SIDSS/prodata/1/pubpaa/US60_NEW_PUB.pap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1184	79.1	338	US-10-821-234-1565	Sequence 1565, Ap
2	1153	77.1	530	US-10-995-805-4	Sequence 4, Appli
3	1150	76.9	365	US-10-821-234-1575	Sequence 1575, Ap
4	1097	73.3	358	US-10-821-234-1563	Sequence 1563, Ap
5	1025	68.5	575	US-10-995-805-2	Sequence 2, Appli
6	832	55.6	284	US-11-072-512-3648	Sequence 3648, Ap
7	472.5	31.6	209	US-11-072-512-1978	Sequence 1978, Ap
8	468	31.3	295	US-11-177-506-52	Sequence 52, Appl
9	456	30.5	348	US-10-995-561-649	Sequence 649, App
10	456	30.5	348	US-11-252-452-2	Sequence 2, Appli
11	433.5	29.0	325	US-10-995-561-652	Sequence 652, App
12	419	28.0	334	US-10-995-561-658	Sequence 658, App
13	416	27.8	150	US-11-072-512-3304	Sequence 3304, Ap
14	370	24.7	260	US-10-995-561-651	Sequence 651, App
15	359	24.0	280	US-10-995-561-655	Sequence 655, App
16	333	22.3	246	US-10-995-561-657	Sequence 657, App
17	313	20.9	365	US-10-521-053-4	Sequence 4, Appli
18	297	19.9	256	US-10-995-561-654	Sequence 654, App
19	272	18.2	242	US-10-995-561-648	Sequence 648, App
20	239	16.0	168	US-10-995-561-656	Sequence 656, App
21	205	13.7	327	US-11-181-234-3	Sequence 3, Appli
22	187.5	12.5	333	US-11-181-234-5	Sequence 5, Appli
23	187.5	12.5	333	US-11-181-234-7	Sequence 7, Appli
24	166	11.1	237	US-10-884-730-355	Sequence 355, App
25	163	10.9	266	US-10-884-730-85	Sequence 85, Appl

ALIGNMENTS

RESULT 1

US-10-821-234-1565
; Sequence 1565, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Presclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; PRIOR FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pc_seq_genes Version 1.0
; SEQ ID NO 1565
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1565

Query Match 79.1%; Score 1184; DB 6; Length 338;
Best Local Similarity 78.8%; Pred. No. 7.1e-93;
Matches 216; Conservative 22; Mismatches 36; Indels 0; Gaps 0;
Qy 1 GSHSLRYSTAVSRGRCPEYIAVEYDDTQFLRFSDAAIPMEPRPWPVQEGPQYW 60
Db 25 GSHSMRYPSAAVRGRCPEYIAVEYDDTQFLRFSDSDSACPRMEPRAPWPVQEGPQYW 84
Qy 61 EWTGYAKANAQTDRLVALNLRLRYNQSEAGSHTIQGNQDGMGPDGRLLRGYHQYADG 120
Db 85 EETENTKKAQTDRLMNLQTLRGYNNQSEASHTLQWIGDLSGDSGLLRGYEQYADG 144
Qy 121 KDYSLNEDLRSAADTAADTAOITQFYAEAYAESEFFRYLSEGCLELLRLRYLENKFTLQ 180
Db 145 KDYLALNEDLRSAADTAADTAQISKRKCEAAVNAEQRAYLEGTCTVEWHLRYLENKEMLQ 204
Qy 181 RADPPKAHVAHPISDHEATLRCAWALGYPAPETLTWQDGEQTDVELVETRPAGDGT 240
Db 205 RADPKHTVTHHPFDYEATLRCAWALGYPAPETLTWQDGEQTDVELVETRPAGDGT 264
Qy 241 FQKAAVVPVSGEQRVYTCVQHEGLPOPLILRW 274
Db 265 FQKAAVVPVSGEQRVYTCVQHEGLPEPLMLRW 298


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; Publication No. US20050287631A1
; GENERAL INFORMATION:
; APPLICANT: KROENKE, MARTIN
; APPLICANT: ZAVAZAVA, NICHOLAS
; TITLE OF INVENTION: COMPOSITIONS AND METHODS RELATED TO A DIMERIC MHC CLASS
; TITLE OF INVENTION: I AND II-LIKE MOLECULE (GBMHC I AND dBMHC II)
; FILE REFERENCE: IOWA:0540US
; CURRENT APPLICATION NUMBER: US/10/995,805
; PRIOR FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: 60/524,988
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 575
; TYPE: PRT
; ORGANISM: RAT
US-10-995-805-2

Query Match      68.5%; Score 1025; DB 6; Length 575;
Best Local Similarity 68.6%; Pred. No. 3.8e-79;
Matches 188; Conservative 29; Mismatches 57; Indels 0; Gaps 0;

QY 1 GSHSLRYFSTAVSRGCGPRVIAVEYVDQFLRFDSDAAIPRMEPRFPWVEQSGPQYW 60
Db 25 GSHSMRYFDIAVSRPLGEPRIYSVGVYDHTFVRFDSDAENPRVEPRAPMWEREGPDYW 84
QY 61 EWTGTGAKANAOTDRVALRNLRLRYNQSEAGHTLQGMNGCDMGDPGRLLRGVGHAYDG 120
Db 85 ERETQKAGNEQNYRVSRLNLRGYNQSEGGSHTTQRMVCDVGTGDSLLRGYRQDAYDG 144
QY 121 KYIISLNEDLRSWTAADTVAQITQRPYEAEBVYAEFRYTYLEGECLELLRRLYENKGTILQ 180
Db 145 RDIYALNEDLKTWTAADFAAQITRNKWDRAVGAERLRAVLEGTCTVEWLRRLYEHGKETLL 204
QY 181 RADPKAHVAHPISDHEATLRCWALGFYPAPITLTWQDGEOTDTVELVETRPAGDGT 240
Db 205 RLDDPPKAHYTLRPRPEGDTLRCWALGFYPADISLSWQLNGBDLTQDMVELVETRPAGDGT 264
QY 241 FOKWAAVVVPSGEQRYTCHVQHEGLPQPLILRW 274
Db 265 FOKWASVVVPLGKEQNYTCRVEHGLPEPLTORW 298

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RESULT 6
US-11-072-512-3648
; Sequence 3648, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOKYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1978
; LENGTH: 209
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-1978

Query Match      31.6%; Score 472.5; DB 7; Length 209;
Best Local Similarity 47.3%; Pred. No. 6.5e-33;
Matches 105; Conservative 15; Mismatches 51; Indels 51; Gaps 4;

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; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3648
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3648

Query Match      55.6%; Score 832; DB 7; Length 284;
Best Local Similarity 81.5%; Pred. No. 3.5e-63;
Matches 150; Conservative 13; Mismatches 21; Indels 0; Gaps 0;

QY 91 GSHTLQGMNGCDMGDPGRLLRGVGHAYDGKDYISLNEDLRSWTAADTVAQITQRFYEAB 150
Db 61 GSHTLQGMNGCDMGDPGRLLRGVGHAYDGKDYISLNEDLRSWTAADTVAQITQRFYEAB 120
QY 151 EVAREFRYTYLEGECLELLRRLYENKGTILQADPPKAHVAAHPISDHEATLRCWALGFYP 210
Db 121 NVAEQRRAYLEGTCTVEWLRRLYENKGTILQADPPKAHVAAHPISDHEATLRCWALGFYP 180
QY 211 ABITLTWQDGEOTDTVELVETRPAGDGTFOKWAHVVPVPSGEQRYTCHVQHEGLPQPL 270
Db 181 ABITLTWQDGEOTDTVELVETRPAGDGTFOKWAHVVPVPSGEQRYTCHVQHEGLPQPL 240
QY 271 ILRW 274
Db 241 MLRW 244

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RESULT 7
US-11-072-512-1978
; Sequence 1978, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOKYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1978
; LENGTH: 209
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-1978

Query Match      31.6%; Score 472.5; DB 7; Length 209;
Best Local Similarity 47.3%; Pred. No. 6.5e-33;
Matches 105; Conservative 15; Mismatches 51; Indels 51; Gaps 4;

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QY 121 KDVISLNEEDLSRWTAADTVAQITQRYEABEY-ABEFRTYLEGECLELLRRLRYLNGKETL 179
Db 143 QDLHLEFCPTDLDWRAAEPRAPWPTKLEWERHKIRARONRAYLERDCPCPAQLQQLLELGRGVL 202
QY 180 QRADPPKARVAHPHPIIDHEATLRCWALGFYPABITLITWDRDGBEQTQDTLVEVTR---PA 236
Db 203 DQQVPLVKVTHH-VTSSVTLTLCRALNYYPQNTMKWLKQ--KQPMDAKEFEKPDVLEW 259
QY 237 GDTGTFQKAAVVPVSGEQRVTCHVQHEGLPQPLILRW 274
Db 260 GDTGYQGWITLAVPPGEEQRVTCQVEHPGLDQPLIVW 297

RESULT 11

US-10-995-561-652
; Sequence 652, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 561
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 652
; LENGTH: 325
; TYPE: PRN
; ORGANISM: Homo sapiens
US-10-995-561-652

Query Match 29.0%; Score 433.5; DB 6; Length 325;
Best Local Similarity 37.5%; Pred. No. 2.2e-29;
Matches 103; Conservative 42; Mismatches 113; Indels 17; Gaps 9;

QY 5 LRYFTAVSRPGRGPRYIAVYDDTQPLRPSDAAIPRMEPRPWEQE-GPYWEMT 63
Db 12 LMLLQTAVL-----QRLPLGLYVDDQLFVFDHESR--RVEPRTPWVSSRISQWMLQL 64
QY 64 TGYAKANAQTDRLVALNRLRYNQSEAGSHTLQGMNGCDMPDGRLLRGYHGHAYDGY 123
Db 65 SOSLKGWDMFTVDFTWIMENHNHKE-SHTLQVILGCEMQEDNS--TEGYWKYGYDGDH 122
QY 124 ISLNEEDLSRWTAADTVAQITQRYEABEY-ABEFRTYLEGECLELLRRLRYLNGKETLQKA 182
Db 123 LEFCPTDLDWRAAEPRAPWPTKLEWERHKIRARONRAYLERDCPCPAQLQQLLELGRGVLQDQ 182
QY 183 DPPKARVAHPHPIIDHEATLRCWALGFYPABITLITWDRDGBEQTQDTLVEVTR---PAGDG 239
Db 183 VPPLVKVTHH-VTSSVTLTLCRALNYYPQNTMKWLKQ--KQPMDAKEFEKPDVLEW 239
QY 240 TFOKAAVVPVSGEQRVTCHVQHEGLPQPLILRW 274
Db 240 TYQGWITLAVPPGEEQRVTCQVEHPGLDQPLIVW 274

RESULT 12

US-10-995-561-658
; Sequence 658, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 561
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 658

; LENGTH: 334
; TYPE: PRN
; ORGANISM: Homo sapiens
US-10-995-561-658

Query Match 28.0%; Score 419; DB 6; Length 334;
Best Local Similarity 36.3%; Pred. No. 3.8e-28;
Matches 101; Conservative 39; Mismatches 112; Indels 26; Gaps 8;
QY 2 SHSLYFSTAVSRPGRGPRYIAVYDDTQPLRPSDAAIPRMEPRPWEQE-GPYW 60
Db 27 SHSLHYLPMGASEQDLGLSLFEALGVDDQLFVFDHESR--RVEPRTPWVSSRISQW 84

QY 61 EMTTGYAKANAQTDRLVALNRLRYNQSEAGSHTLQGMNGCDMPDGRLLRGYHGHAYDGY 120
Db 85 LQLSOSLKGWDMFTVDFTWIMENHNHKE-SHTLQVILGCEMQEDNS--TEGYWKYGYDQ 142
QY 121 KQYISLNEEDLSRWTAADTVAQITQRYEABEY-ABEFRTYLEGECLELLRRLRYLNGKETL 179
Db 143 QDLHLEFCPTDLDWRAAEPRAPWPTKLEWERHKIRARONRAYLERDCPCPAQLQQLLELGRGVL 202
QY 180 QRADPPKARVAHPHPIIDHEATLRCWALGFYPABITLITWDRDGBEQTQDTLVEVTR---PA 236
Db 203 DQ-----QVTLRCRALNYYPQNTMKWLKQ--KQPMDAKEFEKPDVLEW 245
QY 237 GDTGTFQKAAVVPVSGEQRVTCHVQHEGLPQPLILRW 274
Db 246 GDTGYQGWITLAVPPGEEQRVTCQVEHPGLDQPLIVW 283

RESULT 13

US-11-072-512-3304
; Sequence 3304, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOUYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR FILING DATE: 2005-03-07
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3304
; LENGTH: 150
; TYPE: PRN
; ORGANISM: Homo sapiens
US-11-072-512-3304

Query Match 27.8%; Score 416; DB 7; Length 150;
Best Local Similarity 85.7%; Pred. No. 2.7e-28;
Matches 72; Conservative 6; Mismatches 6; Indels 0; Gaps 0;

```
Qy 191 HPIISDHEATLRCWALGFYPAEITLTWQDGEQTDTELVEVTRPAGDGTQKWAAVVVP 250
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 3 HHSVSDYKATLRCWALGFYPEITLTWQDGEDQTDQDMELVETRPAQDGNFQKWAAVVVP 62
Qy 251 SGEQRYTCHVQHEGLPOPLILRW 274
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 63 SGEQRYMCHVQHEGLPKPLILRW 86
```

RESULT 14

```
US-10-995-561-651
; Sequence 651, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 651
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-651
```

```
Query Match 24.7%; Score 370; DB 6; Length 260;
Best Local Similarity 42.2%; Pred. No. 4e-24;
Matches 79; Conservative 29; Mismatches 71; Indels 8; Gaps 5;

Qy 92 SHTLQGMGCDMGDPGRLLRGVHOHAYDGDYISLNEDLRSWTAADTVAQITQRYEAE 151
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 27 SHTLQVILGCEMQEDNS-TEGYWKYGDGQDHLEFCPTLDWRAABPRAWPTKLEWERHK 85
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Qy 152 Y-AEEFRTYLEGCELELRLRYLNGKETLQADPPKAHVAHPISDHEATLRCWALGFYP 210
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 86 IRARQNRAYLERDCPAQLQELLEGRGVLDDQVPLVKVTHH-VTSSVTLRCRALNYP 144
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Qy 211 AEITLTWQDGEQTDTELVEVTR---PAGDGTQKWAAVVVPSEGEQRYTCHVQHEGLP 267
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 145 QNITMKWLKD--KQPMDAKEFEPKDVLPNGDGTGQWITLAVPPGEEQRYTCQVEHPGLD 202
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Qy 268 QPLILRW 274
|||:|||||:
Db 203 QPLIVIW 209
|||:|||||:
```

RESULT 15

```
US-10-995-561-655
; Sequence 655, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 655
; LENGTH: 280
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-655
```

```
Query Match 24.0%; Score 359; DB 6; Length 280;
Best Local Similarity 35.0%; Pred. No. 3.7e-23;
Matches 89; Conservative 39; Mismatches 114; Indels 12; Gaps 8;
```

```
Qy 2 SHSLRYFSTAVSRPGRGEPRYIAVEYVDDTQFLRFDSDAAIIPRMPEPRPWEQE-GPOYV 60
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 27 SHSLHYLFMGASEQDILGLSLFEALGYVDDQLFVFDHESR--RVEPRTPWVSSRISSQMW 84
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Qy 61 EWTGYAKANAQTDRLVALRNLLRRYNOSEAGSHTLOCMNGCDMGDPDGRLLRGYHOHAYDG 120
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 85 LQLSQSLKGMWDMFTVDFTIMENHNHSHKE-SHTLQVILGCEMQEDNS-TEGYWKYGYDG 142
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Qy 121 KDYISLNEDLRSWTAADTVAQITQRYEAEY-AEEFRTYLEGCELELRLRYLNGKETL 179
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 143 QDHLEFCPTLDWRAABPRAWPTKLEWERHKIRARQNRAYLERDCPAQLQELLEGRGVL 202
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Qy 180 QRADPPKAHVAHPISDHEATLRCWALGFYPAEITLTWQDGEQTDTELVEVTR---PA 236
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 203 DQVPPPLVKVTHH-VTSSVTLRCRALNYPQNTMKWLKD--KQPMDAKEFEPKDVLPN 259
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

Qy 237 GDGTFOKWAAVVVP 250
|||||:|||||:
Db 260 GDGTQGWITLAVP 273
|||||:|||||:
```

Search completed: April 7, 2006, 13:06:42
Job time : 13.557 secs